



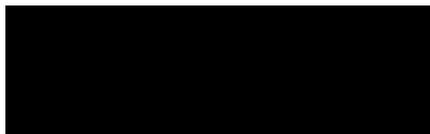
**Review of Scientific Literature Relevant to the  
Food/Feed and Environmental Risk Assessment of  
Event GA21 Maize**

**Literature Review**

**TEST GUIDELINE(S):**

Not Applicable

**AUTHOR(S):**



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**PERFORMING LABORATORY:**

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

**LABORATORY PROJECT ID:**

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**SPONSOR(S):**

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

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## **LIST OF ACRONYMS AND ABBREVIATIONS**

CAB	Commonwealth Agricultural Bureaux
EFSA	European Food Safety Authority
ERA	Environmental Risk Assessment
EU	European Union
GMO	Genetically modified organism
ISAAA	International Service for the Acquisition of Agri-Biotech Applications
MEDLINE	MEDical Literature Analysis and Retrieval System (online version)
mEPSPS	Double-mutated 5-enol pyruvylshikimate-3-phosphate synthase
NTO	Nontarget organisms
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 GA21 maize that is relevant to the risk assessment of genetically modified organisms. Maize plants (*Zea mays* L., corn) 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.

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 is:

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

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

**TABLE 1** Review question in PICO/PECO structure

Element	Components of review question
Population	human and animal health and the environment
Intervention/Exposure	GA21 maize, derived food/feed products, mEPSPS and closely related variants
Comparator	conventional counterpart (if applicable)
Outcome	adverse effects

### 2.2 Eligibility/Inclusion Criteria

Tables 2 and 3 summarize the eligibility/inclusion criteria for establishing relevance of retrieved records. Table 2 provides high level key concepts for inclusion/exclusion and Table 3 provides more explicit information on the information/data requirements concept. The eligibility/inclusion criteria are provided in the order of importance or ease of finding information on the criteria within a publication. The first failed eligibility/inclusion criterion was used as the primary reason for exclusion, and the remaining criteria were not assessed. Internet pages results were screened by date to remove those published prior to 2019. Pages without dates were evaluated further using the criteria in Tables 2 and 3.

**TABLE 2 Eligibility/Inclusion criteria to establish relevance**

<b>Concepts</b>	<b>Criteria</b>	<b>Comment</b>
Intervention/exposure	GA21 maize, derived food/feed products, and/or the intended trait(s)	Glyphosate tolerance is the intended trait of GA21 maize. Any records on enzymes classified as an EPSPS conferring glyphosate tolerance will be considered relevant.
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 GA21 maize (information/data requirements provided in Table 3) were considered relevant. Based on the scope of the application certain information/data requirements were excluded. These are also detailed in Table 3. Publications addressing issues such as benefits, socio-economics, ethics, crop protection, detection methods, efficacy, public perception and risk communication were excluded using this criterion, as they are not 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.
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. Risk assessments performed and reported by relevant key organizations were included if they address GA21 maize or mEPSPS or 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. 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.

Concepts	Criteria	Comment
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 3 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 3 it was considered relevant.
Outcomes	Effects/impacts on human and animal health, and/or the environment are addressed	Publications that address GA21 maize also need to address effects/impacts on entities of concern, and potential determinants of exposure that place these entities at risk in order to be relevant to the risk assessment of GA21 maize.
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 GA21 maize must also include a conventional counterpart as a comparator in those cases where comparative analysis is conducted and plant material is used as test material. Any uncertainties about the appropriateness of the comparator was addressed in the assessment of the publication.
Plant species	The publication 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 GA21 maize. Therefore, GMOs that contain mEPSPS or closely related variants, but are introduced into another plant species may be included. For certain types of data, the presence of mEPSPS in a different plant species will not impact the assessment of GA21 maize. Those types of data are identified in Table 3.
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.

**TABLE 3 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. If certain data are considered event-specific or specific to the transgenic proteins expressed in GA21 maize it is noted. If the record does not contain enough information to determine if the protein being evaluated is a closely related variant then it was included.

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

Information/data requirement	Non-exhaustive list of specific information/data requirements
Post-market monitoring	<ul style="list-style-type: none"> <li>Description of mechanisms for determining actual changes to overall dietary intake patterns of the GM food, to what extent this has occurred and whether or not the product induces known (side) effects or unexpected side effects</li> <li>Information on the reliability, sensitivity, and specificity of the post market monitoring</li> </ul>
Persistence and invasiveness assessment, including plant-to-plant gene transfer	<ul style="list-style-type: none"> <li>Measurements of volunteer occurrence and establishment (GA21 maize only)</li> <li>Replacement capacity (GA21 maize only)</li> <li>Fitness of the GM plant expressing mEPSPS in various environmental conditions – in the same or in different plant species were considered relevant</li> </ul>
Assessment of plant to micro-organism gene transfer	<ul style="list-style-type: none"> <li>Homology searches at nucleotide level between the GM event and microorganisms. (GA21 maize only)</li> </ul>
Assessment of interactions with target organisms	<ul style="list-style-type: none"> <li>Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of 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 GA21 maize is not relevant for this application.</li> </ul>
Assessment of interactions with nontarget organisms	<ul style="list-style-type: none"> <li>The EFSA ERA Guidance (EFSA 2010) states that: “<i>in cases where the application does not include cultivation in the EU, direct environmental exposure of NTOs to the GM plant is via accidental release into the environment of seeds or propagules during transportation and processing. This may result in sporadic occurrence of feral plants and therefore exposure of NTO populations is likely to be negligible. The ERA will then focus on indirect exposure to products of the GM plant (e.g. through manure and faeces from animals fed the GM plant, and other by-products of industrial processes)</i>”. Therefore, any publications that discuss direct exposure in test protein(s) and laboratory studies or field survey data can be considered not relevant based on scope of application.</li> </ul>
Assessment of interactions with biogeochemical and abiotic processes	<ul style="list-style-type: none"> <li>Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of 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 GA21 maize on biogeochemical processes resulting from specific cultivation, management and harvesting techniques is not relevant given the scope of this application.</li> </ul>

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"> <li>Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of 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): “<i>for GM plants for import and processing that are not intended for cultivation in the EU, there is no need for an ERA for altered cultivation, management and harvesting techniques</i>”. Therefore, an assessment of impact of specific cultivation, management and harvesting techniques of GA21 maize is not relevant for this application.</li> </ul>
Risk mitigation	<ul style="list-style-type: none"> <li>Excluded based on the scope of the application. Risk mitigation measures such as high dose/refuge strategy, isolation distance from protected habitats hosting species of conservation concern that are at risk, integrated pest/weed management are only relevant to cultivation. The scope of this application covers the import, processing and food and feed use of GA21 maize.</li> </ul>
Post-market environmental monitoring	<ul style="list-style-type: none"> <li>Excluded based on the scope of the application. Monitoring such as insect resistance is relevant only to cultivation. The scope of this application covers the import, processing and food and feed use of GA21 maize.</li> </ul>

## 3.0 SEARCHING FOR/IDENTIFYING RELEVANT PUBLICATIONS

### 3.1 Electronic Bibliographic Databases

To search for different types of publications and unpublished work that could provide information on the review question, multidisciplinary citation databases which include grey literature (i.e., not peer reviewed) 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 listed below (Table 4) were searched for documents related to GA21 maize.

**TABLE 4 Key organizations pages included in the search**

Regulatory agency/risk assessment body	Web address
Food Standards Australia New Zealand	<a href="http://www.foodstandards.gov.au/consumer/gmfood/applications/Pages/default.aspx">http://www.foodstandards.gov.au/consumer/gmfood/applications/Pages/default.aspx</a>
Health Canada <sup>a</sup>	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html">https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html</a>
Ministry of Agriculture, Forestry and Fisheries	<a href="http://www.maff.go.jp/e/">http://www.maff.go.jp/e/</a>
Ministry of Environment, Forest and Climate change	<a href="http://moef.gov.in/">http://moef.gov.in/</a>
National Technical Commission on Biosafety <sup>b</sup>	<a href="http://ctnbio.mctic.gov.br/inicio">http://ctnbio.mctic.gov.br/inicio</a>
Office of the Gene Technology Regulator	<a href="http://www.ogtr.gov.au/">http://www.ogtr.gov.au/</a>
US Department of Agriculture	<a href="https://www.aphis.usda.gov/aphis/ourfocus/biotechnology">https://www.aphis.usda.gov/aphis/ourfocus/biotechnology</a>
US Environmental Protection Agency	<a href="https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated">https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated</a>
US Food and Drug Administration	<a href="https://www.accessdata.fda.gov/scripts/fdcc/?set=Biocon">https://www.accessdata.fda.gov/scripts/fdcc/?set=Biocon</a>

<sup>a</sup>Also searches Environment and Climate Change Canada (<https://www.ec.gc.ca/cc/>) and Canadian Food Inspection Agency (<http://www.inspection.gc.ca/plants/plants-with-novel-traits/notices-of-submission/eng/1300143491851/130014350790>).

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

### **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 within the relevant time period (2019 through the date the search was conducted) and 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 and deemed relevant to the review questions were examined to determine the subject indexing terms associated with it.

- Seeking suggestions from experts and stakeholders
  - The search terms were developed using a multi-disciplinary team (i.e., risk assessors, information specialists, regulatory affairs managers).

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

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

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

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

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

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

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

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

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

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

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

- 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 GA21 maize and is provided in Table 5. 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 5 Search String Strategy**

The search strategy employed captured literature relevant to GA21 maize and is provided in Table 5. The same search string was used in all databases.

Set	Field	Search string	Concepts/Key elements
1	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 M0NOOO21* OR M0N00021* OR M0Nempty setempty setempty set21*	Event
2	Topic	((Roundup* OR round up*) ADJ2 ready*) ADJ3 (maize OR corn OR Zea mays OR Z mays) OR RR maize* OR RR corn* OR (Agrisure* ADJ3 (GT* OR TG*)) OR AgrisureTMGT	Trade name
3	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 2.5.1.19 OR E.C. 2.5.1.19	Newly expressed protein
4	Topic	((gl?phosate OR gl?fosate OR roundup* OR round up* OR herbicide* OR pesticide*) ADJ2 (toleran* OR resistan* OR protect*))	Intended trait (herbicidal)
5	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*))	GMO general
6	Topic	GMHT OR GEHT OR GMHR or GEHR OR GMHTs OR GEHTs OR GMHRs OR GEHRs	GMO general x intended trait
7	Topic	Maize* OR corn* OR Zea mays OR Z mays	Plant species
8		#3 AND (#5 OR #7)	(Newly expressed protein AND (GMO general OR plant species))
9		(#4 AND #5) OR #6	((Intended trait AND GMO general) OR GMO general x intended trait)
10		#9 AND #7	((Intended trait AND GMO general) OR GMO general x intended trait) AND plant species)
11		#1 OR #2 OR #8 OR #10	Event OR Trade names OR (Newly expressed protein AND (GMO general OR plant species)) OR (((Intended trait AND GMO general) OR GMO general x intended trait) AND plant species)

### 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 January 1, 2019 (Ovid only allows for limiting search by year) and the date of the last database update prior to the search.

The records returned from the search of the regulatory agency webpages were manually excluded if they were dated prior to 2019. If a date could not be determined for the record then the record was reviewed for relevance using the criteria in Tables 2 and 3.

### 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 6). 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 6** Nomenclature for the single event and newly expressed protein(s) from the ISAAA database for use in searching regulatory agency web pages

Event	Search term	Concepts/Key elements
GA21	GA21	Event name
GA21	Modified 5-enolpyruvylshikimate-3-phosphate synthase enzyme	Newly expressed protein

## 3.4 Reference Publications

The search strategy is the same as the one that was previously validated with reference publications (██████████, 2019).

## 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. Full-length articles were reviewed in Stage 2. An explanation of exclusion is provided for any full-length records that were deemed irrelevant in Stage 2. Any relevant records identified in Stage 2 were subjected to a reliability assessment and evaluation of the implications of the record on the food and feed or environmental risk assessments.

Two independent reviewers examined the records for inclusion/exclusion for each eligible information/data requirement at all stages of review. 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. This conservative approach ensures that all potentially relevant records are evaluated until they are deemed to be either relevant or clearly irrelevant in Stage 2. Following the Stage 1 reviews, reviewers scored the records as either 1) relevant or unclear relevance, 2) clearly irrelevant.

A kappa test was performed after the Stage 1 review and before any discussion of abstracts over which there was disagreement by the reviewers. Of the 115 records reviewed from the databases at Stage 1 there were 111 agreements to exclude, 0 records where both reviewers agreed to include it for Stage 2 review, and 4 disagreements: reviewer A selected to include 4 records while reviewer B selected to exclude. This yielded a kappa test score of 0.

Subsequently, the reviewers met to discuss the abstracts in which they disagreed and moved forward 3 of the 4 records to full-length review in Stage 2. The reviewers agreed on all records after Stage 2; therefore, no tie breaker review was needed.

Because of the format of document retrieved from internet searching of key organizations (i.e., title and abstract is not often provided) the kappa test was conducted only on the output of the database search.

#### **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. Those websites where the records are published in English were assessed by two independent reviewers. Due to format full-text documents were assessed to determine relevance. For those websites where the records are not published in English, the results were reviewed by a native speaker. If the document was deemed to be a relevant document type then it was translated into English and two independent reviewers determined if it met the criteria for inclusion. The rationale for record exclusion is provided only if the record was classified as a relevant document type and was then excluded based on other eligibility criteria.

The Intersecretarial Commission on Biosafety of GMOs (CIBIOGEM) and National Advisory Commission on Agricultural Biotechnology (CONABIA) do not post the relevant document types on their websites; therefore those agency websites were not searched.

For the purposes of generating the statistics related to the records returned from the search of the regulatory agency websites certain assumptions were made. A unique internet record was defined as a unique URL. If the URLs for two documents were identical except for the file format (e.g., pdf versus .doc or .docx), one of the documents was considered a duplicate and excluded from statistical accounting. Documents that were classified as relevant were manually examined to determine if there were any duplicates among them. If a duplicate was identified then it was excluded.

Documents that are clearly labeled as draft or with a line for a signature that is blank were not reviewed for relevance.

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

For electronic bibliographic databases, the date on which the search was conducted, the date of the most recent update of the database, the service provider used, date span of the search, any limits applied to the search (e.g., study types, dates, languages) and the total number of records retrieved before and after removing duplicates were recorded (Table 7). Additionally, the line by line strategy with the number of publications identified per line is presented. See Appendix A.

**TABLE 7 Electronic bibliographic database search details**

Database	Search date (dd/mm/yyyy)	Service provider	Date span of the search (dd/mm/yyyy) <sup>a</sup>	Any limits applied to the search	Total number of records retrieved after removing duplicates
Agricola	08/07/2020	Ovid Technologies	01/01/2019 to 30/06/2020	Dates	4
BIOSIS Previews	08/07/2020	Ovid Technologies	01/01/2019 to 05/07/2020	Dates	16
CAB Abstracts	08/07/2020	Ovid Technologies	01/01/2019 to 05/07/2020	Dates	56
Medline	08/07/2020	Ovid Technologies	01/01/2019 to 07/07/2020	Dates	39

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

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 8).

Table 6 contains the search terms used as a series of single searches for regulatory agency web pages.

There were no relevant records returned from the regulatory agency website search therefore there was no reference list to review and the manual search returned no additional records.

**TABLE 8** Regulatory agency webpage search details

Regulatory agency name	URL	Date of search (dd/mm/yyyy)	Date of most recent website update	Date span of search <sup>a</sup>	Total number of records retrieved after removing duplicates	Number of relevant records
US Environmental Protection Agency	<a href="https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated">https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated</a>	05/08/2020	14/07/2020	No limitations	0	0
US Department of Agriculture	<a href="https://www.aphis.usda.gov/aphis/ourfocus/biotechnology">https://www.aphis.usda.gov/aphis/ourfocus/biotechnology</a>	04/08/2020	No update information provided	No limitations	0	0
US Food and Drug Administration	<a href="https://www.accessdata.fda.gov/scripts/fdcc/?set=Biocon">https://www.accessdata.fda.gov/scripts/fdcc/?set=Biocon</a>	31/07/2020	11/10/2019	No limitations	0	0
Health Canada	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html">https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html</a>	29/07/2020	28/05/2020	No limitations	2	0
Food Standards Australia New Zealand	<a href="http://www.foodstandards.gov.au/consumer/gmfood/applications/Pages/default.aspx">http://www.foodstandards.gov.au/consumer/gmfood/applications/Pages/default.aspx</a>	27/07/2020	No update information provided	No limitations	3	0
Office of the Gene Technology Regulator	<a href="http://www.ogtr.gov.au/">http://www.ogtr.gov.au/</a>	23/07/2020	23/07/2020	No limitations	3	0
National Technical Commission on Biosafety	<a href="http://ctnbio.mctic.gov.br/inicio">http://ctnbio.mctic.gov.br/inicio</a>	15/07/2020	No update information provided	No limitations	0	0
Ministry of Environment, Forest and Climate change	<a href="http://moef.gov.in/">http://moef.gov.in/</a>	23/07/2020	No update information provided	No limitations	0	0
Ministry of Agriculture, Forestry and Fisheries	<a href="http://www.maff.go.jp/e/">http://www.maff.go.jp/e/</a>	20/07/2020	No update information provided	No limitations	0	0

<sup>a</sup>Records published prior to 2019 were manually excluded (if any).

The results of the selection process are recorded in Table 9 and a flow chart of the publication selection process is shown in Figure 1.

**TABLE 9 Results of the publication selection process, for each review question and or group of information/data requirements searched**

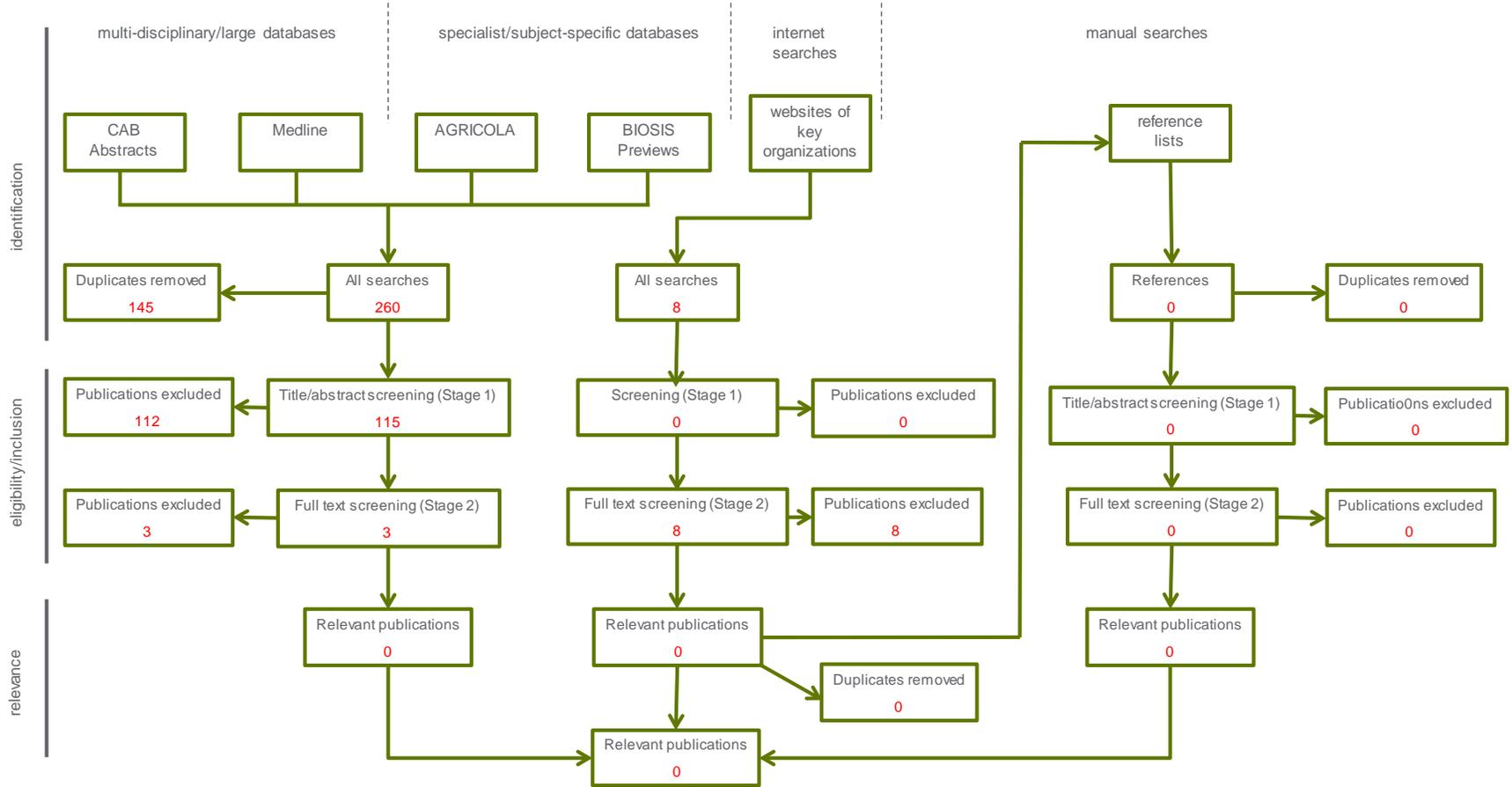
<b>Review question and/or category of information/data requirement(s) captured in the search</b>	<b>Number of publications</b>
Publications identified after all <sup>a</sup> searches of the scientific literature (excluding duplicates)	123
Database results identified	115
Internet results identified	8
Manual search – checking reference lists <sup>b</sup>	0
Publications excluded from the search results after screening of title and abstracts <sup>c</sup> (stage 1)	112
Database results excluded	112
Internet results excluded	0
Manual search – reference results excluded	0
Publications screened using full-text (stage 2)	11
Database results screened	3
Internet results screened	8
Manual search – reference results screened	0
Publications excluded after full-text screening	11
Database results full-text excluded	3
Internet results full-text excluded	8
Manual search – references excluded	0
Unobtainable publications	0
Unclear publications	0
Publications considered relevant	0
Database results relevant	0
Internet results relevant	0
Manual search – relevant references	0

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

<sup>b</sup>No relevant records were returned from the searching of regulatory agency websites therefore there are no references to evaluate via manual searching.

<sup>c</sup>Due to the formatting of records from the websites of key organizations (i.e., a lack of abstracts and in some cases titles) these records were reviewed in a single stage in which the full-text document was reviewed.

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



### 4.3 Relevant Publications

There were no relevant records returned.

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

A list of the full bibliographic references for all excluded studies excluded after detailed assessment of full-text documents for relevance (i.e., stage 2), with justification for their exclusion, is recorded in Table 10 (databases) and Table 11 (internet records).

**TABLE 10 Report of all publications excluded after detailed assessment of full-text documents**

<b>List of bibliographic references for all relevant publications excluded classified by authors</b>			
<b>Study author(s) and year</b>	<b>Title</b>	<b>Source</b>	<b>Reason(s) for exclusion based on eligibility/inclusion criteria</b>
Dively <i>et.al.</i> 2020	Evaluation of gene flow in structured and seed blend refuge systems of non-Bt and Bt corn.	Journal of Pest Science	Intervention/exposure - This study was performed on Agrisure 3000GT which is a breeding stack, and not the single event GA21 maize.
Shahid <i>et al.</i> 2020	Assessing the fate of recombinant plant DNA in rabbit's tissues fed genetically modified cotton.	Journal of Animal Physiology & Animal Nutrition	Informaiton/data requirement – Horizontal gene transfer to microbial species was not investigated.
Fast <i>et al.</i> 2020	Transgene expression in sprayed and non-sprayed herbicide-tolerant genetically engineered crops is equivalent.	Regulatory Toxicology & Pharmacology	Intervention/exposure – This study was not performed on GA21 maize material.

**TABLE 11 Report of all publications excluded after detailed assessment of full-text internet documents**

<b>List of bibliographic references for all relevant publications excluded classified by authors</b>			
<b>Study author(s) and year</b>	<b>Title</b>	<b>Source</b>	<b>Reason(s) for exclusion based on eligibility/inclusion criteria</b>
Office of Gene Technology Regulator 2020	Application for a licence for DIR of GM plants into the environment – limited and controlled release – example answers.	<a href="http://www.ogtr.gov.au/internet/ogtr/publishing.nsf/Content/dirapps-limitedandcontrolledanswers-toc">http://www.ogtr.gov.au/internet/ogtr/publishing.nsf/Content/dirapps-limitedandcontrolledanswers-toc</a>	Information/data requirements
Impossible Foods Inc. 2019	Application to Amend the Australia and New Zealand Food Standards Code to Allow for the Use of Soy Leghemoglobin.	<a href="https://www.foodstandards.gov.au/code/applications/Documents/A1186%20Application_Redacted.pdf">https://www.foodstandards.gov.au/code/applications/Documents/A1186%20Application_Redacted.pdf</a>	Intervention/exposure

The other 6 records excluded and not presented in this table did not fulfill the eligibility criteria for report format.

#### **4.5 Unobtainable Publications**

No publications were considered unobtainable.

#### **4.6 Unclear Publications**

No publications were classified as unclear.

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

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

#### **4.8 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.

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

No relevant records were identified so there is no evaluation on implications of the risk assessment provided.

### **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.



## APPENDICES SECTION

## **APPENDIX A Search history and subject indexing**



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**Search**    [My Workspace](#)

▼ **Search History** (101)

[View Saved](#)

<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	GA21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	49	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<a href="#">Contract</a>
<input type="checkbox"/>	2	GA 21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	3	GA21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	4	GA 21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	5	"MON ØØØ21*".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	6	MON ØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	7	MON 00021*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	8	MON empty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	9	"MONØØØ21*".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	10	MONØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	11	MON00021*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	12	MONempty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	13	"MON ØØØ21*".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	14	MON ØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	15	MON 00021*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	16	MON empty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	17	"MONØØØ21*".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	18	MONØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	19	MON00021*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	20	MONempty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	

	abstract, heading words]					
<input type="checkbox"/>	21	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20	58	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	22	Roundup*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1298	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	23	round up*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	131	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	24	22 or 23	1418	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	25	((Roundup* or round up*) adj2 ready*).mp.	556	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	26	maize.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	65467	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	27	corn.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	107299	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	28	Zea mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	49676	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	29	Z mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	345	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	30	26 or 27 or 28 or 29	147766	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	31	((Roundup* or round up*) adj2 ready* adj3 (maize or corn or Zea mays or Z mays)).mp.	37	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	32	RR maize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	33	RR corn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	34	Agrisure*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	16	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	35	GT*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	15556	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	36	TG*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	41041	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	37	35 or 36	56117	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	38	(Agrisure* adj3 (GT* or TG*)).mp.	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	39	AgrisureTMGT.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	40	31 or 32 or 33 or 38 or 39	44	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	41	5 enol pyruvyl shikimate 3 phosphate synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	13	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	42	5 enolpyruvyl shikimate 3 phosphate synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	23	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	43	5 enolpyruvylshikimate 3 phosphate synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	263	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	44	EPSP synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	67	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	45	MEPSP synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	46	EPSPS.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	450	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	47	MEPSPS.mp. [mp=meeting information, title, original title,	6	Advanced		

	map information, note, abstract, heading words]			<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	48 "EC 2.5.1.19".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	19	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	49 "E.C. 2.5.1.19".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	19	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	50 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49	615	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	51 gl?phosate.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7356	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	52 gl?fosate.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	53 roundup*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1298	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	54 round up*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	131	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	55 herbicide*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	55773	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	56 pesticide*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	123963	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	57 51 or 52 or 53 or 54 or 55 or 56	160803	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	58 toleran*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	108997	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	59 resistan*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	277758	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	62 ((gl?phosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*)).mp.	8496	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	93 Z mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	345	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	63	GMO*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3270	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	68	genetic*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	6062997	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	69	living.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	281431	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	78	72 or 73 or 74 or 75 or 76 or 77	5078229	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	79	((genetic* or living or biotech*) adj3 (modif* or transform* or manipulat* or improv* or engineer* or deriv*)).mp.	164792	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	92	Zea mays.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	53197	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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Bertho, Lieselot [Author, Reprint Author; E-mail: lieselot.bertho@bayer.com]; Schmidt, Kerstin [Author]; Schmidtke, Jorg [Author]; Brants, Ivo [Author]; Fernandez Canton, Rocio [Author]; Novillo, Conchi [Author]; Head, Graham [Author].

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Su Hong-hua [Author; E-mail: susugj@126.com]; Jiang Tao [Author]; Sun Yu [Author]; Gu Hui-jie [Author]; Wu Jiao-jiao [Author]; Yang Yi-zhong [Author, Reprint Author; E-mail: zzyang@yzu.edu.cn].

Journal of Integrative Agriculture. 19(7). JUL 2020. 1842-1849.

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Finley, John W. [Author, Reprint Author; E-mail: jfinle5@su.edu]; Duke, Stephen O. [Author, Reprint Author; E-mail: sduke@olemiss.edu].

Journal of Agricultural & Food Chemistry. 68(20). MAY 20 2020. 5623-5630.

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Steinberg, Pablo [Author, Reprint Author; E-mail: pablo.steinberg@mri.bund.de]; van der Voet, Hilko [Author]; Goedhart, Paul W. [Author]; Kleter, Gijs [Author]; Kok, Esther J. [Author]; Pla, Maria [Author]; Nadal, Anna [Author]; Zeljenkova, Dagmar [Author]; Alacova, Radka [Author]; Babincova, Julia [Author]; Rollerova, Eva [Author]; Jad'ud'ova, Sonja [Author]; Kebis, Anton [Author]; Szabova, Elena [Author]; Tulinska, Jana [Author]; Liskova, Aurelia [Author]; Takacsova, Melinda [Author]; Mikusova, Miroslava Lehotska [Author]; Krivosikova, Zora [Author]; Spoeck, Armin [Author]; Racovita, Monica [Author]; de Vriend, Huib [Author]; Alison, Roger [Author]; Alison, Clare [Author]; Baumgaertner, Wolfgang [Author]; Becker, Kathrin [Author]; Lempp, Charlotte [Author]; Schmicke, Marion [Author]; Schrenk, Dieter [Author]; Poeting, Annette [Author]; Schiemann, Joachim [Author]; Wilhelm, Ralf [Author].

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Barney, Jordan B. [Author; E-mail: jbarney@mix.wvu.edu]; Winans, Matthew J. [Author; E-mail: mwinans@mix.wvu.edu]; Blackwood, Catherine B. [Author; E-mail: cblackwo@mix.wvu.edu]; Pupo, Amaury [Author; E-mail: amaury.pupo@gmail.com]; Gallagher, Jennifer E. G. [Author, Reprint Author; E-mail: jegallagher@mail.wvu.edu].

*Diversity-Basel*. 12(4). APR 2020. 139.

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<input type="checkbox"/>	57	51 or 52 or 53 or 54 or 55 or 56	834280	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	58	toleran*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	226811	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	59	resistan*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	628281	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	60	protect*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	480352	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	61	58 or 59 or 60	1193204	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	62	((gl?phosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*)).mp.	20825	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	64	LMO*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	463	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	65	GM.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	19214	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	66	GE.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	6679	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	67	transgen*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	94402	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	68	genetic*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	957476	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	69	living.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	136449	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	70	biotech*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	228452	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	71	68 or 69 or 70	1196746	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	72	modif*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	361770	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	73	transform*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	217352	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	74	manipulat*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	97620	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	75	improv*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	953744	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	76	engineer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	185009	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	77	deriv*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	418204	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	78	72 or 73 or 74 or 75 or 76 or 77	1854646	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	79	((genetic* or living or biotech*) adj3 (modif* or transform*	143373	Advanced		

	or manipul* or improv* or engineer* or deriv*)),mp.			<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	80 63 or 64 or 65 or 66 or 67 or 79	178105	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	81 GMHT.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	93	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
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<input type="checkbox"/>	86 GEHTs.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	8	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
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<input type="checkbox"/>	88 GEHRs.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	89 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88	221	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	90 Maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	271614	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	91 corn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	329454	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	92 Zea mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	218313	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	93 Z mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1044	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	94 90 or 91 or 92 or 93	370864	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	95 80 or 94	536114	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	96 50 and 95	596	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
<input type="checkbox"/>	97 62 and 80	4878	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
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<input type="checkbox"/>	99 94 and 98	1121	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>
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	concept word, rare disease supplementary concept word, unique identifier, synonyms]					
<input type="checkbox"/>	10 MONOOO21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
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<input type="checkbox"/>	16 M0N empty setempty setempty set21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
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<input type="checkbox"/>	18 MONOOO21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	19 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	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		

	concept word, rare disease supplementary concept word, unique identifier, synonyms]				
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<input type="checkbox"/>	21 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20	84	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	27 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]	34968	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	30 26 or 27 or 28 or 29	69690	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	31 ((Roundup* or round up*) adj2 ready* adj3 (maize or corn or Zea mays or Z mays)).mp.	27	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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	substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]					
<input type="checkbox"/>	34 Agrisure*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	35 GT*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	158040	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	36 TG*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	185184	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	38 (Agrisure* adj3 (GT* or TG*)).mp.	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
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<input type="checkbox"/>	47 MEPPS.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	55	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	50 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49	4430	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	62 ((gl?phosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*)),mp.	3286	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
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<input type="checkbox"/>	79 ((genetic* or living or biotech*) adj3 (modif* or transform* or manipulat* or improv* or engineer* or deriv*)).mp.	154900	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	80 63 or 64 or 65 or 66 or 67 or 79	399261	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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	supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]					
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<input type="checkbox"/>	84 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	<a href="#">Display Results</a>   <a href="#">More</a>		
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<input type="checkbox"/>	88 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	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	89 81 or 82 or 83 or 84 or 85 or 86 or 87 or 88	669	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	90 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]	31100	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
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supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]

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<input type="checkbox"/>	94	90 or 91 or 92 or 93	244057	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	95	80 or 94	636083	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	98	89 or 97	1932	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	99	94 and 98	328	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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1. **Dynamics of canopy-dwelling arthropods under different weed management options, including glyphosate, in conventional and genetically modified insect-resistant maize.**

Garcia-Ruiz E; Cobos G; Sanchez-Ramos I; Pascual S; Chueca MC; Escorial MC; Santin-Montanya I; Loureiro I; Gonzalez-Nunez M.

*Insect Science*. 2020 May 27.

[Journal Article]

UI: 32458593

**Authors Full Name**  
Garcia-Ruiz, Esteban; Cobos, Guillermo; Sanchez-Ramos, Ismael; Pascual, Susana; Chueca, Maria-Cristina; Escorial, Maria-Concepcion; Santin-Montanya, Ines; Loureiro, Inigo; Gonzalez-Nunez, Manuel.

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2. **Overexpression of improved EPSPS gene results in field level glyphosate tolerance and higher grain yield in rice.**

Achary VMM; Sheri V; Manna M; Panditi V; Borphukan B; Ram B; Agarwal A; Fartyal D; Teotia D; Masakapalli SK; Agrawal PK; Reddy MK.

*Plant Biotechnology Journal*. 2020 Jun 09.

[Journal Article]

UI: 32516520

**Authors Full Name**

Achary, V Mohan Murali; Sheri, Vijay; Manna, Mrinalini; Panditi, Varakumar; Borphukan, Bhabesh; Ram, Babu; Agarwal, Aakrati; Fartyal, Dharendra; Teotia, Deepa; Masakapalli, Shyam Kumar; Agrawal, Pawan K; Reddy, Malireddy K.

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3. **Salivary uric acid as a predictive test of preeclampsia, pregnancy-induced hypertension and preterm delivery: A pilot study.**

Puschl IC; Bonde L; Reading IC; Maguire P; Macklon NS; Van Rijn BB.

*Acta Obstetrica et Gynecologica Scandinavica*. 2020 Apr 29.

[Journal Article]

UI: 32350850

**Authors Full Name**

Puschl, Ida Catharina; Bonde, Lisbeth; Reading, Isabel C; Maguire, Paddy; Macklon, Nicholas S; Van Rijn, Bas B.

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4. **[Analysis of Factors Influencing the Suitability of Donor Corneas in the LIONS Cornea Bank Saar-Lor-Lux, Trier/Westpfalz from 2006 to 2016]. [German]** Analyse von Einflussfaktoren auf die Eignung von kornealem Spendergewebe in der LIONS Hornhautbank Saar-Lor-Lux, Trier/Westpfalz von 2006 bis 2016.

Kramp K; Suffo S; Laun D; Bischoff-Jung M; Huber M; Langenbacher A; Seitz B.

*Klinische Monatsblätter für Augenheilkunde*. 2020 May 20.

[English Abstract. Journal Article]

UI: 32434230

**Authors Full Name**

Kramp, Kristina; Suffo, Shady; Laun, Daniel; Bischoff-Jung, Mona; Huber, Manuela; Langenbacher, Achim; Seitz, Berthold.

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5. **First Case of Glyphosate Resistance in Weedy Sunflower (*Helianthus annuus*) Confirmed in Texas.**

Singh V; Etheredge L; McGinty J; Morgan G; Bagavathiannan M.

*Pest Management Science*. 2020 May 18.

[Journal Article]

UI: 32419329

**Authors Full Name**

Singh, Vijay; Etheredge, Luke; McGinty, Josh; Morgan, Gaylon; Bagavathiannan, Muthukumar.

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