Instructions for completing the SIS – Sequence and Chemical Structure Searches

Sequence Searching

A nucleotide or amino acid search using GenomeQuest should be reported with sufficient information such that it is clear as to what has been searched.

The required details for reporting include:

- The sequences searched, identified by either the sequences listed in full, a listing of the SEQ ID NOs of the application or an identified publication, or an unambiguous identifying reference to the sequences (such as a reference to a figure or table containing the sequences),
- the search parameters and searched databases (this is found in the “Workflow Information” table of the GenomeQuest results document), and
- if applicable, filters and any other search techniques or restrictions that are required in order to arrive at the viewed results. The filters are detailed in the “Filtering and Grouping” table of the GenomeQuest results document.

Chemical structure searching

A chemical structure search using STN should be reported with sufficient information such that it is clear as to what has been searched.

In STN Express, a summary of the search should be created using the “Query / Create Query Summary File” menu option. All of the information given in this query summary file should be included in the SIS, including:

- the image of the structure searched
- the accompanying text defining the parameters of the search
- the search history showing the number of documents viewed in each database.

The SIS should state which answer line (“L number”) was viewed.

In New STN (https://www.stn.org/stn/), a summary of the search should be created using the “Export Search History” function. The examiner should select those line numbers corresponding to the search performed, omitting any test structures, exploratory keyword searching, or other matter that does not relate to the final search strategy. Care should be taken to ensure that no relevant lines are missed, that there are no references to absent lines in the final search history, and to ensure that the SIS is clear as to what has been searched. The SIS should state which answer line(s) was/were viewed (e.g. “L2 was viewed”). If only a subset of the answers has been viewed, this should be indicated in the SIS (e.g. “CAPLUS answers from L2 were viewed”).

For both Sequence and Chemical Structure searching, when the number of hits for a search query are provided by the database history command, this should be included in the SIS.
Search Information Statement (SIS)

Application Number 2013200001

A. Search Details

Additional Members of the Search Team (if convened):
A. Black, B. White

Earlier Search Results available: Yes

Search Completion Date: 20/09/2013

B. Search Strategy

GenomeQuest

Search of SEQ ID NOS: 1, 2
and “AAAAAGAACG AGGTTGCAAA AGATA”

Table: Query Database

<table>
<thead>
<tr>
<th>Database</th>
<th>Version</th>
<th>Release Date</th>
<th>Database Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>GQ Pat GoldPlus Nucleotide - Patent sequences</td>
<td>20130830</td>
<td>19:48:02</td>
<td>Most Recent</td>
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<tr>
<td>GQ Pat Platinum Nucleotide - Patent sequences</td>
<td>20130809</td>
<td>18:22:09</td>
<td>Most Recent</td>
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<tr>
<td>Genbank - Bacterial division</td>
<td>196</td>
<td>10:25:00</td>
<td>Updated on 2013-08-31 21:58:51</td>
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<tr>
<td>Genbank - Expressed Sequence Tags division</td>
<td>196</td>
<td>10:26:58</td>
<td>Updated on 2013-09-01 07:26:04</td>
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<td>Protein Data Bank - nucleotide seqs</td>
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<td>Search Strategy</td>
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<td>-----------------</td>
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<tr>
<td>- No protein database selected.</td>
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<tr>
<td>- This is a search on Patents and Public Reference Databases, using Genepast strategy.</td>
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<tr>
<td>- This strategy fits the shorter sequence (query or subject) into the longer one, keeping the number of mismatches and gaps to a minimum.</td>
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<tr>
<td>- Alignments with less than 100% identity over query are discarded.</td>
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<table>
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<tbody>
<tr>
<td>- Best 10000 alignments are kept.</td>
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<table>
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<th>Filter:</th>
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<tbody>
<tr>
<td>- All subj. fields contains maize, corn, zea AND mays and</td>
</tr>
<tr>
<td>- Earliest priority date before 2009-09-05</td>
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<table>
<thead>
<tr>
<th>Grouped by:</th>
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<tbody>
<tr>
<td>Query</td>
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<table>
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<tr>
<th>Group Filter:</th>
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### Search Information Statement (SIS)

**Application Number**

PCT/AU2013/000001

#### A. Search Details

<table>
<thead>
<tr>
<th>Additional Members of the Search Team (if convened)</th>
<th>Earlier Search Results (if available)</th>
<th>Current SIS Completion Date</th>
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<tbody>
<tr>
<td>A. Black, B. White</td>
<td></td>
<td>11 September 2013</td>
</tr>
</tbody>
</table>

#### B. Search Strategy

**STN Express Query Summary**

(FILE 'HOME' ENTERED AT 19:56:21 ON 11 SEP 2013)

FILE 'REGISTRY' ENTERED AT 19:56:28 ON 11 SEP 2013

L1 STRUCTURE UPLOADED

STRUCTURE: R:\Chem_supersection\C2\pct-au2013-000001.str

![Chemical Structure Diagram]

- Chain nodes: 44
- Ring nodes:
  - Chain bonds: 43-44 44-45
  - Ring bonds:

**Exact/norm bonds:**

![Chemical Structure Diagram]
G1:[@1/@2],[@3/@4]

G2:[@5/@6],[@7/@8],[@9/@10],[@11/@12]

G3:C,O,S,N,Si

Match level:
105:CLASS

D L1
L2 7 SEA SSS SAM L1
L3 1369513 SEA SSS FUL L1 EXTEND
L4 248 SEA SSS FUL L1
L5 0 SEA SPE=ON ABB=ON PLU=ON L4 NOT CAPLUS/LC

FILE 'CAPLUS' ENTERED AT 19:57:45 ON 11 SEP 2013
L6 39 SEA SPE=ON ABB=ON PLU=ON L4
D BIB ABS HITSTR 1-

Results of search statement L6 were viewed.
# Search Information Statement (SIS)

**Application Number**: 2013200002

## A. Search Details

<table>
<thead>
<tr>
<th>Additional Members of the Search Team (if convened):</th>
<th>A. Black, B. White</th>
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<tbody>
<tr>
<td>Earlier Search Results available</td>
<td>Yes</td>
</tr>
<tr>
<td>Current SIS Completion Date</td>
<td>11 September 2013</td>
</tr>
</tbody>
</table>

## B. Search Strategy

AU2013000001

ssdrd1701  
Project Created: 11-Sep-2013 12:18 AM EDT  
Last Updated: 11-Sep-2013 12:34 AM EDT  
Report Created: 11-Sep-2013 12:38 AM EDT

## Contents

- STN Search Queries
- STN Structures

### STN Search Queries

**L1**  
Initial Search: 11-Sep-2013 12:26 AM EDT  
Last Search: 11-Sep-2013 12:26 AM EDT  
STR1 and STR2

**User Settings**: Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on  
CAPPLUS: 6  
REGISTRY: 13

**L2**  
Initial Search: 11-Sep-2013 12:34 AM EDT  
Last Search: 11-Sep-2013 12:34 AM EDT  
(STR1 AND STR2)/SSS, FUL
Structures referenced within query

STR1

STR2

User Settings: Abbreviations=on; Plurals=on; Spelling=on; Apostrophe=on; Chemical Names=on; Diacritics=on; Hyphen=on; Cross File=on

CAPLUS: 18
REGISTRY: 431

STN Structures

STR1

STR2

R1 = C,N
R2 = C,O,S

STR2

R1 = F1,F2,F3
STR1:

STR2:

L2 was viewed