



Software for
Business Intelligence

BizInt Smart Charts

Patents & IP Sequences | Clinical Trials | Drug Pipelines

Get Up to Date with BizInt Smart Charts for Patents

John Willmore, VP Product Development

PIUG Annual Conference Workshop, Alexandria, VA, 5 May 2019

www.bizint.com

Agenda

- What's New
- Summary Records and Hit structure reports
- Reference Rows
- Non-Patent Literature
- Updating Reports
- Future directions

bizint.com/slides



What's New

- Version 5.2 just released
- Additional STN content
- Coping with STNext exports
- PatBase enhancements
- Hit Structure options



BizInt Smart Charts

VERSION

5

for Patents

Patent Databases

Provide data on patents filed worldwide

- STN - Classic, STNext, & New STN
- Questel Orbit.com
- Minesoft PatBase
- Innovation, Cortellis IP, Integrity Patents
- LexisNexis TotalPatent
- GQ LifeSciences LifeQuest



BizInt Smart Charts

VERSION

5

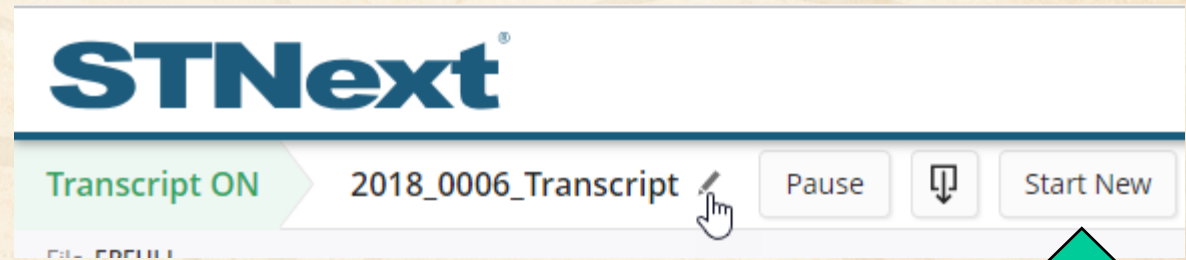
for Patents

STN Content

- DWPI, IFI, Caplus, MARPAT, REGISTRY
- Fulltext: US PCT EP JP KR AU CA CN FR GB DE
- Literature: EMBASE, MEDLINE, BIOSIS, AGRICOLA, ANABSTR, AQUASCI, BIOENG, BIOTECHNO, CABA, CANCERLIT, COMPENDEX, COMPUAB, COMPUSCIENCE, DISSABS, ENCOMPLIT, FEDRIP, FSTA, FROSTI, INSPEC, IPA, KOSMET, LIFESCI, METADEX, PASCAL, RAPRA, SciSearch, TOXCENTER, TULSA, GEOREF, PQSciTech, DDF, PIRA, TEMA, NTIS, 1MOBILITY
- Sequence: DGENE, PCTGENE, USGENE

Importing transcripts from STNext

- Make sure that Classic Display is on
- Start new transcript before displaying.



- Version 5.2 can handle some cases of broken RTF exports from STNext.

PatBase: New fields for 5.0

Patent Family (Extended)						Legal Status Link	VLF ID
Patent	Kind	Date	Appl.	Appl. Date	State		
US 2014148428	A	2014-05-29	US20130090815	2013-11-26	DEAD	http://www.patbase.com/legal/public/index.php?id=56546002	
US 2016213689	A	2016-07-28	US20160008665	2016-01-28	DEAD		
US 2018064729	A	2018-03-08	US20170652777	2017-07-18	ALIVE		
AU 2013352288	AA	2014-06-05	AU20130352288	2013-11-26	ALIVE		
AU 2013352288	BB	2017-11-23	AU20130352288	2013-11-26	ALIVE		
WO 14085474	A1	2014-06-05	WO2013US72038	2013-11-26	DEAD		
TW 201434469	A	2014-09-16	TW20130143227	2013-11-27	ALIVE		
TW I636786	B	2018-10-01	TW20130143227	2013-11-27	ALIVE		
CA 2891348	AA	2015-05-12	CA20132891348	2013-11-26	ALIVE		
SG 11201503697T	A1	2015-06-29	SG20151103697	2013-11-26	ALIVE		
IL 239025	A0	2015-07-30	IL20130239025	2013-11-26	ALIVE		
KR 20150089052	A	2015-08-04	KR20157016809	2013-11-26	ALIVE		
PH 2015501108	B	2015-08-17	PH20150501108	2015-05-19	ALIVE		
PH 2015501108	A	2015-08-17	PH20150501108	2015-05-19	ALIVE		
CN 104853758	A	2015-08-19	CN201380061734	2013-11-26	ALIVE		
CL 2015001442	A1	2015-08-28	CL20150001442	2015-05-27	ALIVE		
EP 2925328	A1	2015-10-07	EP20130802822	2013-11-26	ALIVE		
IN 05091DN2015	A	2015-12-18	IN2015DN05091	2015-06-11	ALIVE		
JP 2016500111	T2	2016-01-07	JP20150544191T	2013-11-26	ALIVE		
JP 6270171	B2	2018-01-31	JP20150544191T	2013-11-26	ALIVE		
MX 2015006710	A1	2016-01-15	MX20150006710	2013-11-26	ALIVE		
HK 1211844	A1	2016-06-03	HK20150112720	2015-12-24	ALIVE		
ID 201604069	A	2016-06-17	ID2015P0003748	2013-11-26	ALIVE		

Extended Patent
in a single

Link
Legal

Support for
Very Large Family IDs

This feature brought to you by...

- **Let us know if there is content that you want to see, or that you want to see presented differently**
- **That's how the software evolves!**

For example...

- We are working with a customer on a feature to extract legal status events (from a user-specified list) into a new field
- We are working with another customer on a project to enhance the change reporting in updates to flag new family members

Let us know what you want to see!

New Hit Structure Options

- New summary records option to skip empty fields in records
- Default: skip
- Great for mixed patent and non-patent results (e.g. Patent Family won't show up as a blank field in a journal reference)

Summary Record Export Options

The Summary Record export shows the columns (fields) visible in your chart.

- Number the records
- Start each record on new page
- Skip empty fields in records
- Include Links section
- Include editable Notes section
- Include Index of Hit Structures



You may also include the following information for the record:

- Include Claims
- Include Alignment
- Include Hit Structures
- Include Index Terms

OK

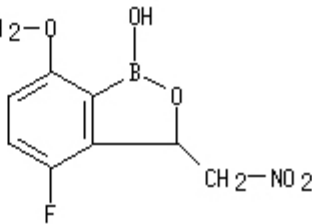
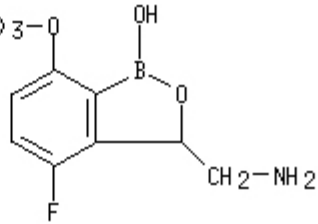
Cancel

Help

New Hit Structure Options

- Options | Hit Structure Style
- Only one option at the moment: include the Chemical Name

Index of Hit Structures

Substance	Structure	Reference
<p>1 1655492-02-6</p> <p>2,1-Benzoxaborole, 4-fluoro-1,3-dihydro-1-hydroxy-3-(nitromethyl)-7-[2-(phenylmethoxy)ethoxy]- (CA INDEX NAME)</p>	<p>Ph-CH₂-O-CH₂-CH₂-O</p> 	<p>prepn. and anti-mycobacterial activity of benzoxaborole compds. Reference 1</p> <p>prepn. and biol. applications of tricyclic benzoxaborole compds. Reference 2</p>
<p>2 1364682-96-1</p> <p>1-Propanol, 3-[[3-(aminomethyl)-4-fluoro-1,3-dihydro-1-hydroxy-2,1-benzoxaborol-7-yl]oxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)</p>	<p>CM 1 CRN 1364682-95-0</p> <p>HO-(CH₂)₃-O</p>  <p>CM 2 CRN 76-05-1</p>	<p>prepn. of benzoxaborole derivs. useful for treating bacterial infections Reference 3</p>

Deliver reports in HTML, Word, Excel...

LifeQuest: Sample

	Title	Patent	Patent Family Kind	Date	Inventor(s)	CPC	Abstract	Claims	Pub. Status
1 Link	Drug delivery compositions	US7329638	B2	2008-02-12	Victor C. Yang Yoon Jeong Park Junfeng Liang	A61K2039/505 A61K47/48315 A61K47/48884 A61K47/4823 A61K47/48561	The present invention relates to multicomponent compositions and methods of administering these compositions, which specifically translocate	1. A composition, comprising: a. a first targeting component, wherein said first targeting component comprises i. a molecular recognition element, wherein said molecular recognition element has	Grant
2 Link	Drug delivery compos	<p>ALL-TEXT AND IMAGE DATABASE</p> <p>Advanced Pat Num Help</p> <p>Bottom</p> <p>view Cart Add to Cart</p> <p>Images</p> <p>(1 of 1)</p> <p>United States Patent Yang, et al. 7,329,638 February 12, 2008</p> <p>Drug delivery compositions</p> <p>Abstract</p> <p>The present invention relates to multicomponent compositions and methods of administering these compositions, which specifically translocate therapeutic molecules (e.g., drugs or prodrugs) across biological membranes thus reducing potential toxic side effects on nontargeted cells and tissues.</p> <p>Inventors: Yang; Victor C. (Ann Arbor, MI), Park; Yoon Jeong (Seoul, KR), Liang; Junfeng (Westfield, NJ) Assignee: The Regents of the University of Michigan (Ann Arbor, MI) Family ID: 34198915 Appl. No.: 10/835,151 Filed: April 29, 2004</p> <p>Prior Publication Data</p> <p>Document Identifier: US 20050042753 A1 Publication Date: Feb 24, 2005</p> <p>Related U.S. Patent Documents</p>							
3 Link	POLYMORPHISMS OF REGION OF THE HUMAN HT1A GENE, ASSOCIATED WITH PROTEINS OF THE 5' HTR2A GENE AND A DIAGNOSTIC TEST FOR MAJOR DEPRESSION AND RELATED MENTAL ILLNESSES								
4 Link	Oncology drug innova								

Link in the Link to web resource (like USPTO)

Link to record on source platform

Summary Record export in Word

3.	Basic Patent Number:	WO2012033858A2
	Title:	Boron-containing small molecules
	Inventor(s):	Hernandez, Vincent S.; Ding, Charles; Plattner, Jacob J.; Alley, Michael Richard Kevin; Rock, Fernando; Zhang, Suoming; Easom, Eric; Li, Xianfeng; Zhou, Ding
	Patent Assignee:	Anacor Pharmaceuticals, Inc., USA
	Hyperlinks:	Source WO2012033858A2



- Fields are the columns in chart
- Content, like hyperlinks, is included in the Summary Record

THE JOURNEY BEGINS...

Summary Record export with Hit Structures

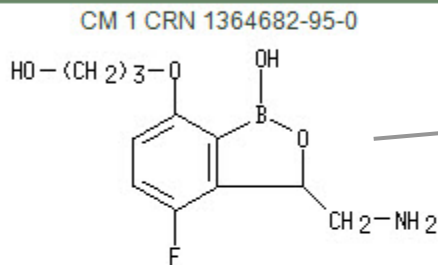
3. Basic Patent Number:	WO2012033858A2
Title:	Boron-containing small molecules
Inventor(s):	Hernandez, Vincent S.; Ding, Charles; Plattner, Jacob J.; Alley, Michael Richard Kevin; Rock, Fernando; Zhang, Suoming; Easom, Eric; Li, Xianfeng; Zhou, Ding
Patent Assignee:	Anacor Pharmaceuticals, Inc., USA
Hyperlinks:	Source WO2012033858A2

Text from CPlus record

Hit Structures:

1364682-96-1 [\(Cmpd. 2\)](#)

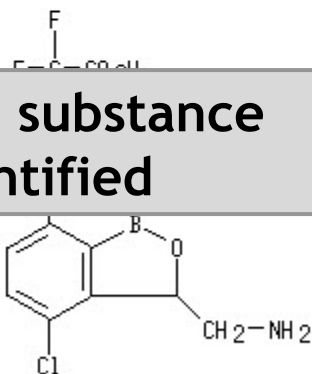
1-Propanol, 3-[[3-(aminomethyl)-4-fluoro-1,3-dihydro-1-hydroxy-2,1-benzoxaborol-7-yl]oxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)



RL: PAC (Pharmacological activity); SPN (Synthetic preparation); TH (Therapeutic use); BIOL (Biological study); PREP (Preparation); U (Uses)

Structures with annotations including multi page images

CM 2 CRN 76-05-1



prepn. of benzoxaborole useful for treating bacterial infections

Each hit substance identified

1364683-03-3 [\(Cmpd. 3\)](#)

1-Propanol, 3-[[3-(aminomethyl)-4-chloro-1,3-dihydro-1-hydroxy-2,1-benzoxaborol-7-yl]oxy]-, hydrochloride (1:1) (CA INDEX NAME)

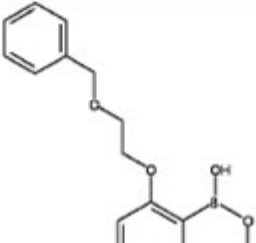
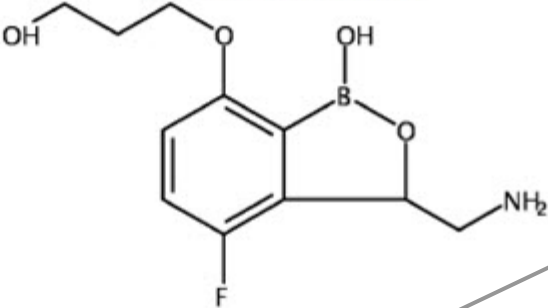
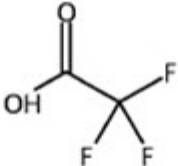
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); U (Uses)

Index Terms

prepn. of benzoxaborole derivs. useful for treating bacterial infections

A structure oriented “Index of Hit Structures”

Index of Hit Structures

Substance	Structure
<p>1 1655492-02-6</p> <p>2,1-Benzoxaborole, 4-fluoro-1,3-dihydro-1-hydroxy-3-(nitromethyl)-7-[2-(phenylmethoxy)ethoxy]-</p>	
<p>2 1364682-96-1</p> <p>1-Propanol, 3-[[3-(aminomethyl)-4-fluoro-1,3-dihydro-1-hydroxy-2,1-benzoxaborol-7-yl]oxy]-, 2,2,2-trifluoroacetate (1:2)</p>	 <p>CM2 CRN 76-05-1</p> 

Structures with annotations

Each hit substance identified

Links to references for each structure

Multiple images (continuation) or mixtures

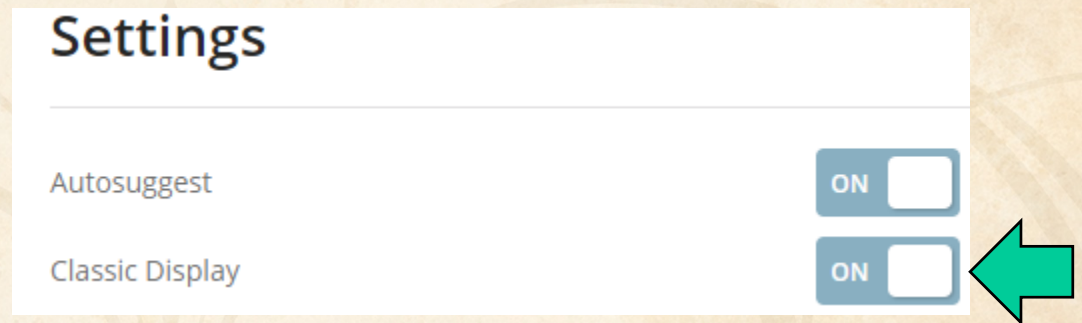
prepn. and biol. applications of benzoxaborole compds.
[Reference 1](#)

prepn. and biol. applications of tricyclic benzoxaborole compds.
[Reference 2](#)

prepn. of benzoxaborole derivs. useful for treating bacterial infections
[Reference 3](#)

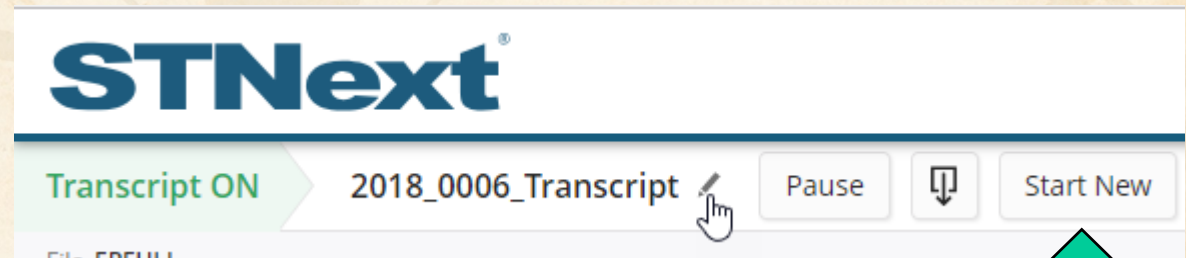
Importing transcripts with hit structures (STNext)

- Make sure that Classic Display is on



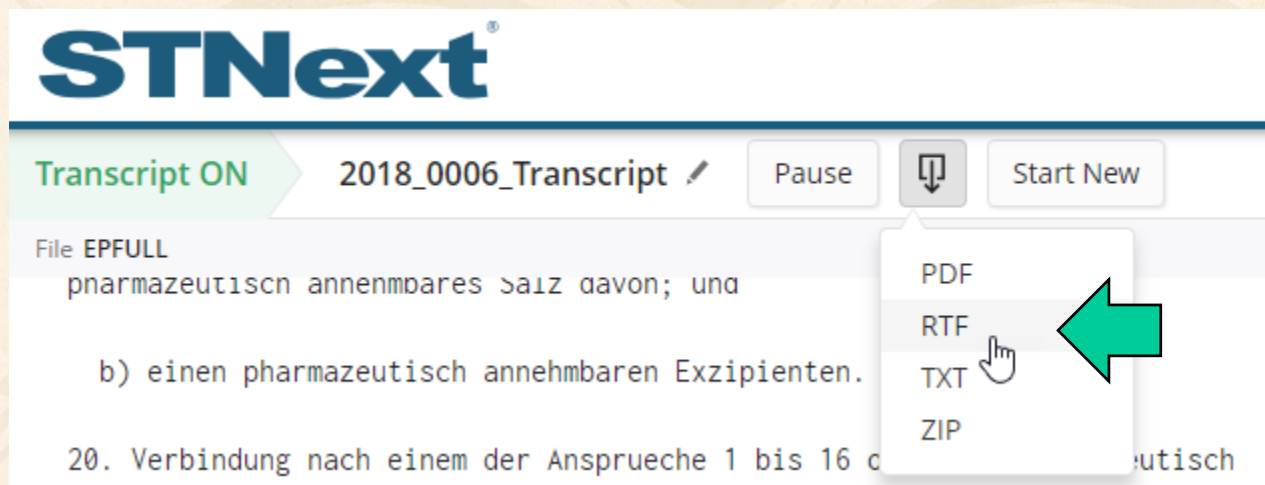
Importing transcripts with hit structures (STNext)

- Make sure that Classic Display is on
- Start new transcript before displaying.



Importing transcripts with hit structures (STNext)

- Make sure that Classic Display is on
- Start new transcript before displaying.
- Display your results including HITSTR.
- Save as RTF.



The screenshot shows the STNext web interface. At the top left is the STNext logo. Below it, there's a header bar with a green 'Transcript ON' indicator, the transcript name '2018_0006_Transcript', and buttons for 'Pause', a download icon, and 'Start New'. The main content area displays a transcript snippet with German text: 'pharmazeutisch annehmbares Salz davon; und', 'b) einen pharmazeutisch annehmbaren Exzipienten.', and '20. Verbindung nach einem der Ansprueche 1 bis 16 c... utisch'. A context menu is open over the text, listing options: PDF, RTF, TXT, and ZIP. A green arrow points to the RTF option, and a mouse cursor is visible over the RTF text.

BIB vs. IBIB

- We recommend using tagged (BIB), rather than indented (IBIB), display formats
- Some field contents (table headings) appear before the label in IBIB
- Indent levels in RTF are more reliably detected in BIB

Importing transcripts with hit structures (other platforms)

New STN: BizInt export - must include both
REGISTRY and CPlus records in export

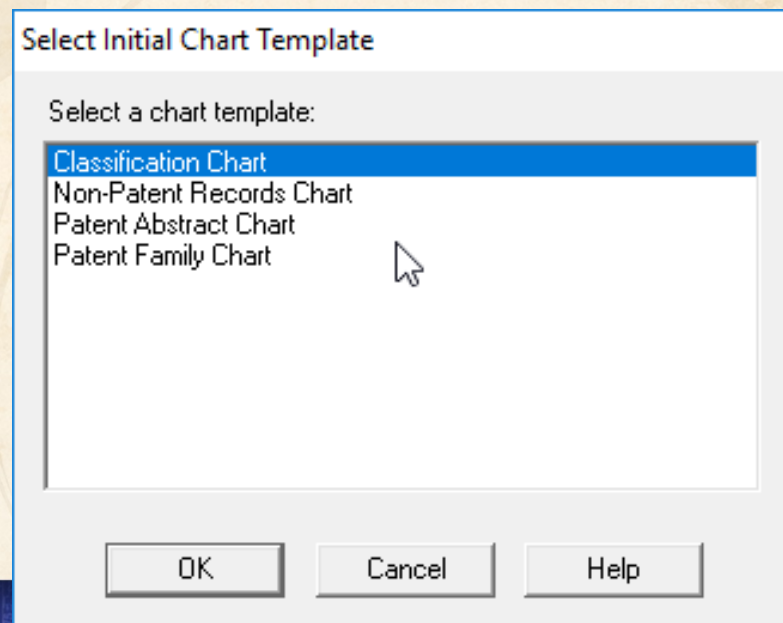
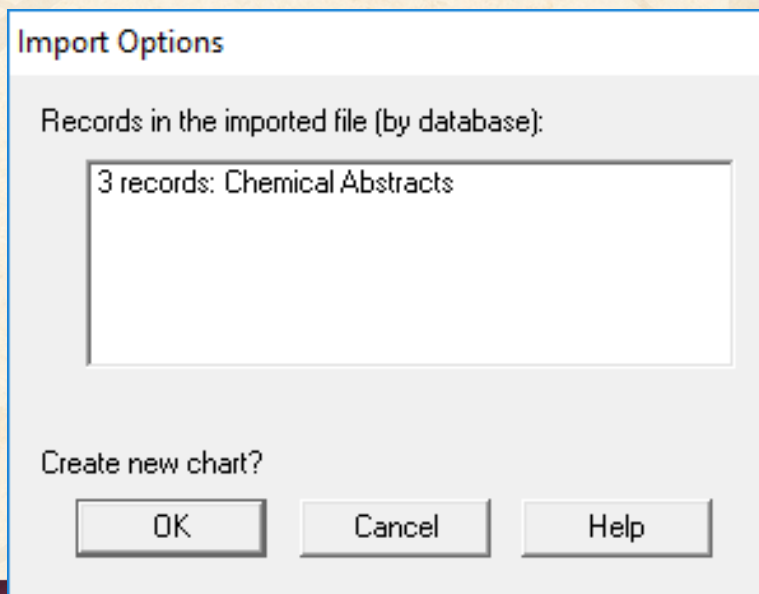
http://www.bizint.com/support/create/newstn_hitstr.php

Classic STN: Using STN Express, display HITSTR,
save transcript as RTF.

*If transcript opens in Word **DO NOT SAVE!***

Import your transcript

- Either **File | Import** or drag your transcript file into BizInt Smart Charts for Patents.
- Chart template is a default set of columns
Create your own!



Select columns to display

- Use **View | Columns** to select and re-order visible columns in the chart

Unsaved1

Chemical Abstracts: stnweb_hitstr

	Title	Basic Patent Number	Inventor(s)	Patent Assignee	International Patent Class	CA Classification
1	Benzoxaborole compounds and uses thereof	WO 2016128949 A1	Alley, M. R. K. Barros-Aguirre,	GlaxoSmithKline Intellectual Property		
2	Tricyclic benzoxab compounds and us					
3	Boron-containing s molecules					

Display Columns

Available Columns

- Accession Number
- Application Details
- Basic Patent Number
- Basic Publication Date
- CA Doc Type
- Designated States
- Document Number
- Full Text Link
- Graphic Information
- Hit Index Terms
- Index Terms
- Language
- Other Source
- Priority
- Priority Date
- Record Num.
- Source
- Subject Area

Selected Columns

- Title
- Patent Family
- Inventor(s)
- Patent Assignee
- Abstract

Up

Down

30

Set column properties

- Use **View | Column Properties** to change column names or set up hyperlinks
- Configure with **Options | Full text patent links**

Patent Family			Inventor(s)	Patent Assignee	Abstract
Patent	Kind	Date			
WO 2016128949	A1	20160818	Alley, M. R. K.	GlaxoSmithKline	Title compds., I and I
CA 2976308	A1	20160818	Barros-Aguirre,	Intellectual Property	fluoro, bromo and ioc
AU 2016217508	A1	20170928			
IL 253865	A	20170928			
CR 20170372	A	20171019			
KR 2017117156	A	20171020			
EP 3256480	A1	20171220			
CN 107548398	A	20180105			
JP 2018506540	T	20180308			
AR 103707	A1	20170531			
AR 103708	A1	20170531			
US 20180037595	A1	20180208			
IN 201717032083	A	20171208			
WO 2015021396	A2	20150212			
WO 2015021396	A3	20151029			
WO 2015021396	A9	20160211			
CA 2919888	A1	20150212			
AU 2014305792	A1	20160310			

Column Properties

Title: Patent Family

Width: 244

Sort type: <Not sortable>

Link patent numbers to full text in HTML export

Convert DOI to links in HTML export

Link NCT numbers to clinicaltrials.gov in HTML exp

OK Cancel Help

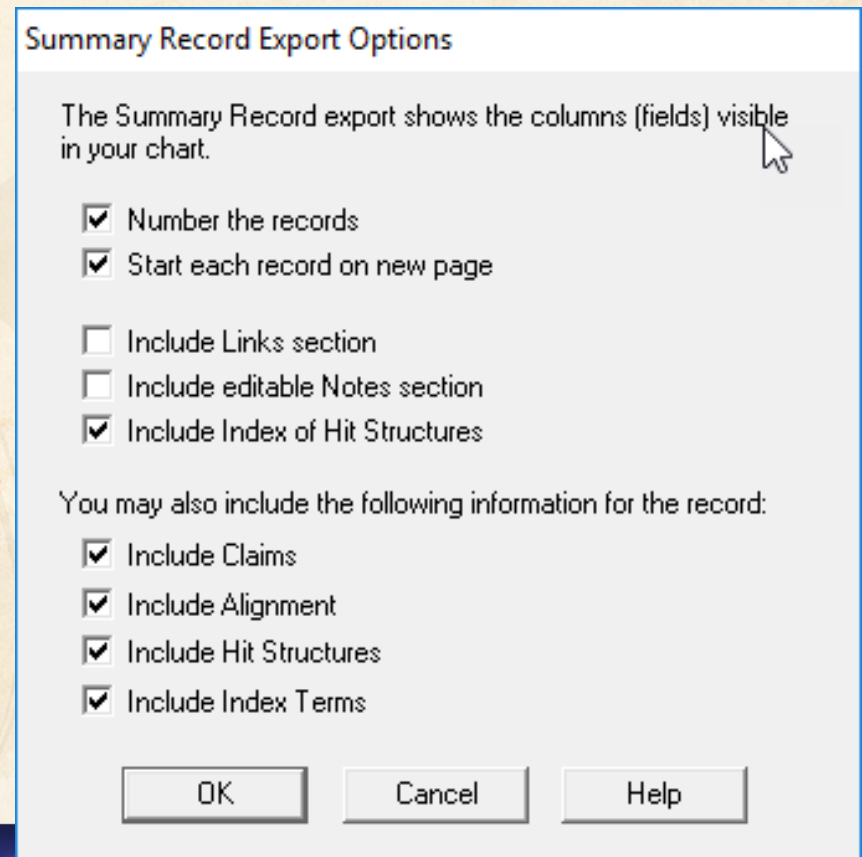
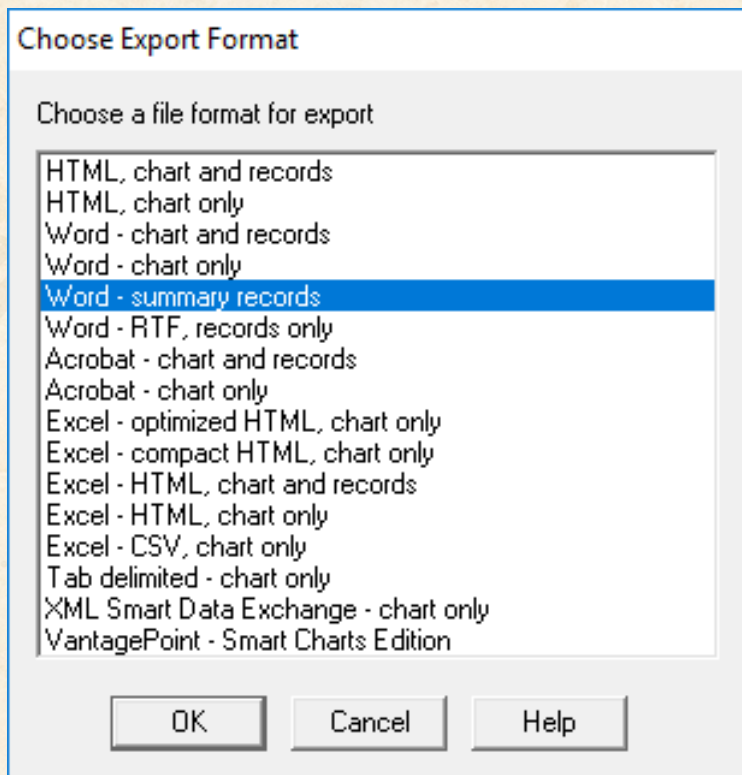
Patent Full-text Link Options

Choose how patent numbers from the following authorities will be converted to full-text links in HTML exports.

Authority	Link to:
<input checked="" type="checkbox"/> US	USPTO
<input checked="" type="checkbox"/> EP	esp@cenet
<input checked="" type="checkbox"/> WO	esp@cenet
<input type="checkbox"/> FR,GB	Derwent Innovation esp@cenet Micropatent Orbit.com PatBase Express PatentOrder PatentOrder Direct Patentscope Questel PDS Questel PDS w/ IP validator TotalPatent
<input type="checkbox"/> CN	

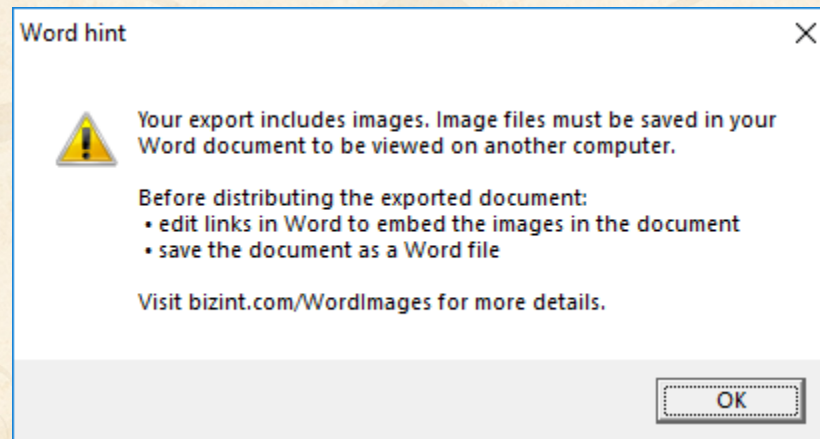
Export to see hit structures

File | Export and choose Word - Summary Records



Export to see hit structures

Tip: Structure images are linked in the exported file - you need to embed images and Save As before sending the exported Word document



Option: Index of Hit Structures

Summary Record Export Options

The Summary Record export shows the columns (fields) visible in your chart.

- Number the records
- Start each record on new page
- Include Links section
- Include editable Notes section
- Include Index of Hit Structures

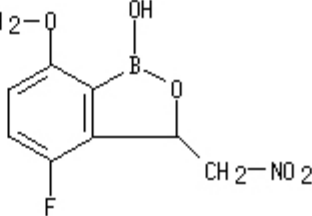
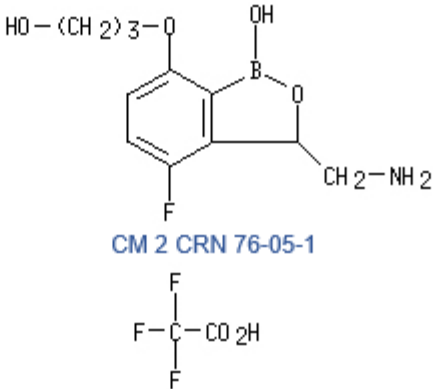
You may also include the following information for the record:

- Include Claims
- Include Alignment
- Include Hit Structures
- Include Index Terms

OK Cancel Help

- INCLUDE EDITABLE NOTES SECTION
- Include Index of Hit Structures

Index of Hit Structures

	Substance	Structure	Reference
1	<p>1655492-02-6</p> <p>2,1-Benzoxaborole, 4-fluoro-1,3-dihydro-1-hydroxy-3-(nitromethyl)-7-[2-(phenylmethoxy)ethoxy]- (CA INDEX NAME)</p>	<p>Ph-CH₂-O-CH₂-CH₂-O</p> 	<p>prepn. and antimycobacterial activity of benzoxaborole compds. Reference 1</p> <p>prepn. and biol. applications of tricyclic benzoxaborole compds. Reference 2</p>
2	<p>1364682-96-1</p> <p>1-Propanol, 3-[[[3-(aminomethyl)-4-fluoro-1,3-dihydro-1-hydroxy-2,1-benzoxaborol-7-yl]oxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)</p>	<p>CM 1 CRN 1364682-95-0</p>  <p>CM 2 CRN 76-05-1</p>	<p>prepn. of benzoxaborole derivs. useful for treating bacterial infections Reference 3</p>

Option: Hit Structures

Summary Record Export Options

The Summary Record export shows the columns (fields) visible in your chart.

Number the records
 Start each record on new page
 Include Links section
 Include editable Notes section
 Include Index of Hit Structures

You may also include the following information for the record:

Include Claims
 Include Alignment
 Include Hit Structures
 Include Index Terms

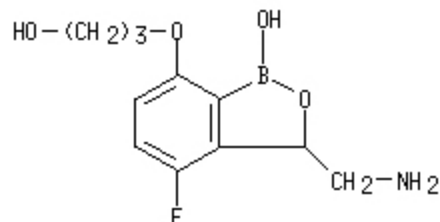
- Include Alignment
- Include Hit Structures
- Include Index Terms

Hit Structures:

1364682-96-1 ([Cmpd. 2](#))

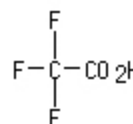
1-Propanol, 3-[[[3-(aminomethyl)-4-fluoro-1,3-dihydro-1-hydroxy-2,1-benzoxaborol-7-yl]oxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1 CRN 1364682-95-0



RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

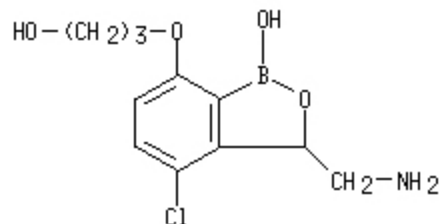
CM 2 CRN 76-05-1



prepn. of benzoxaborole derivs. useful for treating bacterial infections

1364683-03-3 ([Cmpd. 3](#))

1-Propanol, 3-[[[3-(aminomethyl)-4-chloro-1,3-dihydro-1-hydroxy-2,1-benzoxaborol-7-yl]oxy]-, hydrochloride (1:1) (CA INDEX NAME)



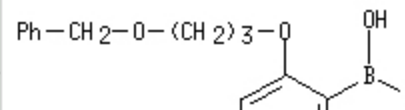
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

prepn. of benzoxaborole derivs. useful for treating bacterial infections

• HCl

1364684-69-4 ([Cmpd. 4](#))

2,1-Benzoxaborole, 4-fluoro-1,3-dihydro-1-hydroxy-3-



RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

Option: Index Terms

Summary Record Export Options


The Summary Record export shows the columns (fields) visible in your chart.

- Number the records
- Start each record on new page
- Include Links section
- Include editable Notes section
- Include Index of Hit Structures

You may also include the following information for the record:

- Include Claims
- Include Alignment
- Include Hit Structures
- Include Index Terms

OK Cancel Help



Include Hit Structures

Include Index Terms

Index Terms:

1364682-96-1P ([Cmpd. 2](#)) 1364683-03-3P ([Cmpd. 3](#)) PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of benzoxaborole derivs. useful for treating bacterial infections)

1364684-69-4P ([Cmpd. 4](#)) 1364684-75-2P ([Cmpd. 5](#)) RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of benzoxaborole derivs. useful for treating bacterial infections)

Integrating data from separate records

Reference Rows is a utility to combine multiple records from the same family into one “row”
Records grouped by “Common Family”
Matching publication numbers in the family

choosing content by rules...

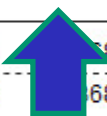
	Title	Database	Patent Family		
			Patent	Kind	Date
1.	Modulating expression of a target nucleic acid comprises providing to the cell a guide RNA including a transcriptional activator or repressor domain as a fusion protein, and providing to the cell a nuclease null Cas9 protein	1.1 DWPI	US 2014356959	A	2014-12-04
		1.2 DWPI	US 2014356956	A	2014-12-04
		1.3 GPATPRT link	AU 2014274939	AA	2014-12-11
		1.4 GPATPRT link	WO 14197568	A2	2014-12-11
		1.5 Patbase link	WO 14197568	A3	2015-03-12
		1.6 FAMPAT link	CA 2914638	AA	2015-12-04
			KR 20160014036	A	2016-02-05
		1.1 DWPI			1.5 Patbase
2.	New bacteriophage comprising a polynucleotide expressing RNA-directed DNA-binding polypeptide comprising nuclease module, and targeting module comprising guide RNA, for restricting growth of host cell, and for preparing antiseptic composition	2.1 DWPI	WO 15070193	A1	2015-05-14
		2.2 DWPI	US 2015132263	A	2015-05-14
		2.3 GPATPRT link	US 2015353901	A	2015-12-10
		2.4 GPATPRT link			
		2.5 Patbase link			
		2.6 FAMPAT link			
		2.1 DWPI			2.5 Patbase

linking unique content...

Family Status				Probable Assignee
Pub No.	State	Status	Expiry	
US 20140356956 A1	ALIVE	PENDING	2034-06-04	PRESIDENT AND FELLOWS OF HARVARD COLLEGE
US 9267135 B2	ALIVE	GRANTED	2034-06-04	
1.6 FAMPAT				1.5 Patbase
WO 201570193 A1	ALIVE	PENDING	2034-11-11	RADIANT ECONOMICS INC
US 20150132263 A1	ALIVE	PENDING	2034-11-11	
US 20150353901 A1	ALIVE	PENDING	2034-11-11	
2.6 FAMPAT				2.5 Patbase

...and summarizing data elements.

Sequence Locations				
Seq. ID Number	% Identity	Length	Location	
US20140356959-0001	100.00	1368	probable disclosure (not found by automated parsing)	1.3
US20140356956-0001	100.00	1368	probable disclosure (not found by automated parsing)	1.4
US20150132263-0002	100.00	1368	claim: 19; 20	2.3
US20150353901-0002	100.00	1368	claim: 19; 20	2.4



Hit structures in Reference Rows

Reference Rows is a utility to combine multiple records from the same family into one “row”
Records grouped by “Common Family”
Matching publication numbers in the family

Uses:

- Add claims from other sources

Add claims from other sources

Combine results from two or more databases

Unsaved1

Chemical Abstracts: stnext_hitstr

Unsaved2

PatBase: patba

Tric con

TRICYCLIC BENZO COMPOUNDS AN

Bor mol

Create Combined Chart Wizard

Step 1 - Select the Key Chart

- patbase_hitstr_matches
- stnext_hitstr

This wizard helps you create a chart combining data from different charts. Use File | Update if you wish to update a chart with new information.

In Step 1, you select the "Key Chart". The Key Chart is used to define the initial presentation of the combined chart.

In Step 2, you select the remaining charts that you wish to combine with the Key Chart.

In Step 3, you enter the title of the new combined chart and select options for the combine chart behavior.

Chart file information:

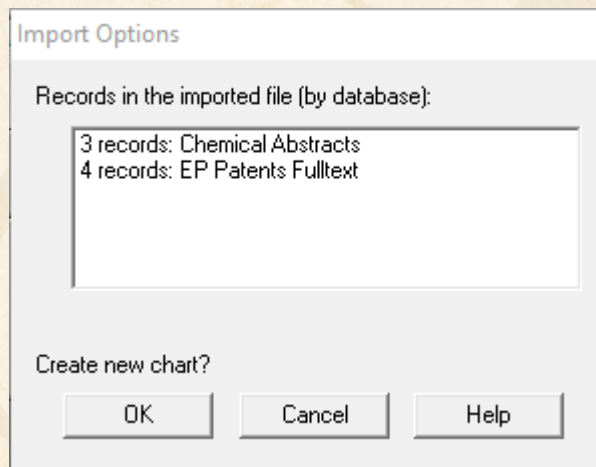
Next >

Cancel

Help

Add claims from other sources

Or import a multi-file transcript
file **epfull**
transfer **pn l2 1-...**



Add claims from other sources

Send to Reference Rows

Create Reference Rows (1 of 3)

Welcome to the Create Reference Rows Wizard

BizInt Smart Charts Reference Rows offers the ability to create a "Reference Row" which combines information from a set of related records into a single row. The Create Reference Rows Wizard will help you create and set up rules for Reference Rows.

NOTE: Reference Rows are based on the Common Patent Family column in your report. You can generate this column now.

Click Next to continue.



Option: Claims + Hit Structures

Summary Record Export Options

The Summary Record export shows the columns (fields) visible in your chart.

Number the records
 Start each record on new page
 Include Links section
 Include editable Notes section
 Include Index of Hit Structures

You may also include the following information for the record:

Include Claims
 Include Alignment
 Include Hit Structures
 Include Index Terms

You may also include the following information for the record:

Include Claims

Include Hit Structures

10. An in vitro method of:

(A) inhibiting an enzyme, comprising: contacting the enzyme with the compound of any of claims 1 to 5, thereby inhibiting the enzyme;

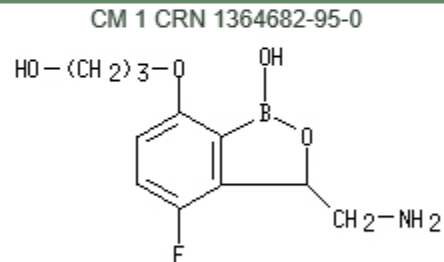
(B) killing and/or preventing the growth of a microorganism, comprising: contacting the microorganism with an effective amount of the compound of any of claims 1 to 5, thereby killing and/or preventing the growth of the microorganism; or

(C) inhibiting the editing domain of a t-RNA synthetase, comprising: contacting the synthetase with an effective amount of a compound of any of claims 1 to 5, or a pharmaceutically-acceptable salt thereof, thereby inhibiting the synthetase.

Hit Structures:

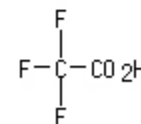
1364682-96-1 ([Cmpd. 2](#))

1-Propanol, 3-[[3-(aminomethyl)-4-fluoro-1,3-dihydro-1-hydroxy-2,1-benzoxaborol-7-yl]oxy]-, 2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)



RL: PAC
(Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

CM 2 CRN 76-05-1



prepn. of [benzoxaborole derivs.](#) useful for treating bacterial infections

1364683-03-3 ([Cmpd. 3](#))

US (CH2)3-O

OH

RL: PAC

Hit structures in Reference Rows

Reference Rows is a utility to combine multiple records from the same family into one “row”
Records grouped by “Common Family”
Matching publication numbers in the family

Uses:

- Add claims from other sources
- Link sequence results with hit structures



BizInt Smart Charts

VERSION

4

for Patents

IP Sequence Databases

Provide data on sequences filed in patents

- GenomeQuest (Geneseq, GQ-PAT)
- STN (USGENE, DGENE, PCTGEN)

Link sequence results with hit structures

Follow Cookbook recipe to create a summary of sequence hits for each

1.	Title: Selective high-affinity polydentate ligands and methods of making such																																
	Database: GQPAT Gold+ Proteins GQPAT Gold+ Proteins GQPAT Gold+ Proteins GQPAT Gold+ Proteins GQPAT Gold+ Proteins GQPAT Gold+ Proteins GQPAT Gold+ Proteins GQPAT Gold+ Proteins Chemical Abstracts Chemical Abstracts																																
	Organism Species: Homo sapiens (human)																																
Sequence Summary:	<table border="1"><thead><tr><th>Seq. ID Number</th><th>Length</th><th>% Identity</th><th>Location</th></tr></thead><tbody><tr><td>US20180008621-0003</td><td>237</td><td>100.00</td><td>probable disclosure (not found by automated parsing)</td></tr><tr><td>US9884070-0003</td><td>237</td><td>100.00</td><td>probable disclosure (not found by automated parsing)</td></tr><tr><td>US20180008622-0003</td><td>237</td><td>100.00</td><td>probable disclosure (not found by automated parsing)</td></tr><tr><td>JP5623384-0003</td><td>237</td><td>100.00</td><td>probable disclosure (not found by automated parsing)</td></tr><tr><td>JP2014122234-0003</td><td>237</td><td>100.00</td><td>probable disclosure (not found by automated parsing)</td></tr><tr><td>US20110144065-0003</td><td>237</td><td>100.00</td><td>probable disclosure (not found by automated parsing)</td></tr><tr><td>CA2721980-0003</td><td>237</td><td>100.00</td><td>probable disclosure (not found by automated parsing)</td></tr></tbody></table>	Seq. ID Number	Length	% Identity	Location	US20180008621-0003	237	100.00	probable disclosure (not found by automated parsing)	US9884070-0003	237	100.00	probable disclosure (not found by automated parsing)	US20180008622-0003	237	100.00	probable disclosure (not found by automated parsing)	JP5623384-0003	237	100.00	probable disclosure (not found by automated parsing)	JP2014122234-0003	237	100.00	probable disclosure (not found by automated parsing)	US20110144065-0003	237	100.00	probable disclosure (not found by automated parsing)	CA2721980-0003	237	100.00	probable disclosure (not found by automated parsing)
Seq. ID Number	Length	% Identity	Location																														
US20180008621-0003	237	100.00	probable disclosure (not found by automated parsing)																														
US9884070-0003	237	100.00	probable disclosure (not found by automated parsing)																														
US20180008622-0003	237	100.00	probable disclosure (not found by automated parsing)																														
JP5623384-0003	237	100.00	probable disclosure (not found by automated parsing)																														
JP2014122234-0003	237	100.00	probable disclosure (not found by automated parsing)																														
US20110144065-0003	237	100.00	probable disclosure (not found by automated parsing)																														
CA2721980-0003	237	100.00	probable disclosure (not found by automated parsing)																														

Option: Alignments + Hit Structures

Summary Record Export Options

The Summary Record export shows the columns (fields) visible in your chart.

- Number the records
- Start each record on new page
- Include Links section
- Include editable Notes section
- Include Index of Hit Structures

You may also include the following information for the record:

- Include Claims
- Include Alignment
- Include Hit Structures
- Include Index Terms

OK Cancel Help

- Include Claims
- Include Alignment
- Include Hit Structures

Alignment:

```
Q:      1  GDTRPRFLEEVKFECHFFNGTIERVRLLERRVHNOEEYARYDSVGEYRAVTELGRPDAEY  60
      |
S:      1  GDTRPRFLEEVKFECHFFNGTIERVRLLERRVHNOEEYARYDSVGEYRAVTELGRPDAEY  60
      |
Q:     61  WNSQKDLLERRRAAVDTYCRHNYGVGESFTVQRRVQPKVTIVYPSKTQPLQHHNLLVCSVN  120
      |
S:     61  WNSQKDLLERRRAAVDTYCRHNYGVGESFTVQRRVQPKVTIVYPSKTQPLQHHNLLVCSVN  120
      |
Q:    121  GFYPGSIEVRWFRNGQEEKTG VVSTGLIQNGDWTFTQLVMLETVPOSGEVYTCQVEHPSV  180
      |
S:    121  GFYPGSIEVAWFRNGQEEKTG VVSTGLIQNGDWTFTQLVMLETVPOSGEVYTCQVEHPSV  180
      |
Q:    181  MSPLTVEWRARSESAQSKMLSGVGGFVLGLLVLGAGLFYIFRNQKGHSGLPPTGFLS  237
      |
S:    181  MSPLTVEWRARSESAQSKMLSGVGGFVLGLLVLGAGLFYIFRNQKGHSGLPPTGFLS  237
```

Option: Alignments + Hit Structures

Summary Record Export Options

The Summary Record export shows the columns (fields) visible in your chart.

- Number the records
- Start each record on new page
- Include Links section
- Include editable Notes section
- Include Index of Hit Structures

You may also include the following information for the record:

- Include Claims
- Include Alignment
- Include Hit Structures
- Include Index Terms

OK Cancel Help

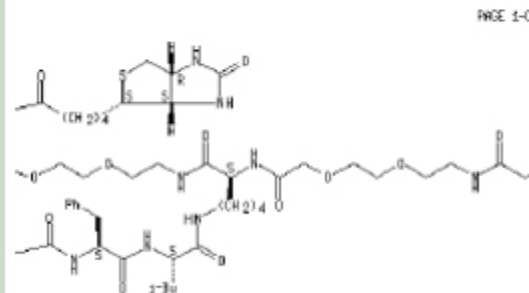
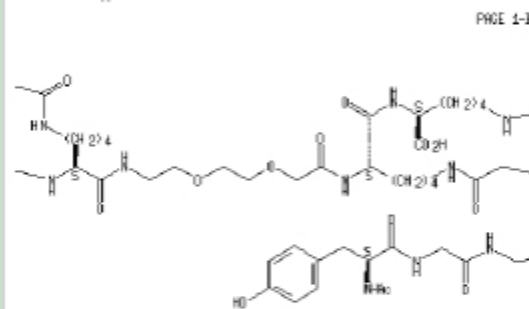
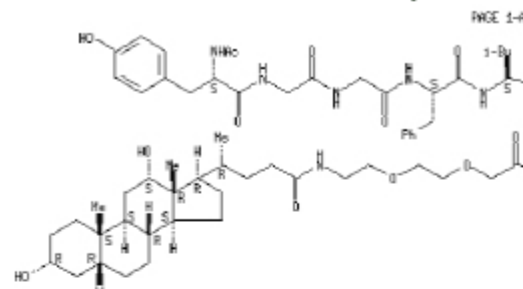
- Include Claims
- Include Alignment
- Include Hit Structures

Hit Structures:

1045703-23-8 ([Cmpd. 1](#))

L-Lysine, N2,N6-bis[N6-(N-acetyl-L-tyrosylglycylglycyl-L-phenylalanyl-L-leucyl)-N2-[2-[2-[[[(3-oxocholan-24-yl)amino]ethoxy]ethoxy]acetyl]-L-lysyl-2-[2-(2-aminoethoxy)ethoxy]acetyl]-L-lysyl-N6-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]- (CA INDEX NAME)

Absolute stereochemistry.



RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

HLA-DR10 selective high-affinity polydentate ligand; selective high-affinity polydentate ligands of target mols. and methods of making such and uses for diagnosis and therapeutics in relation to delivery of effectors

Hit structures in Reference Rows

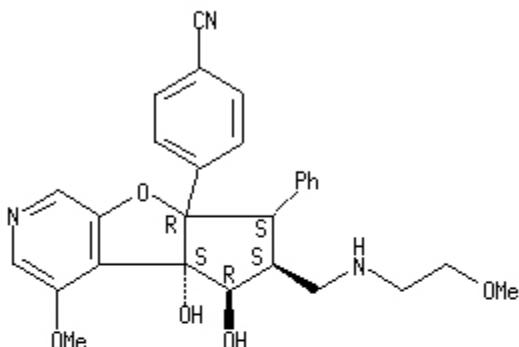
Reference Rows is a utility to combine multiple records from the same family into one “row”
Records grouped by “Common Family”
Matching publication numbers in the family

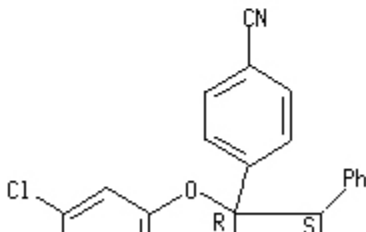
Uses:

- Add claims from other sources
- Link sequence results with hit structures
- Merge hit structures spread across multiple CPlus records (“mega-TAN” records)

Group Mega-TAN records

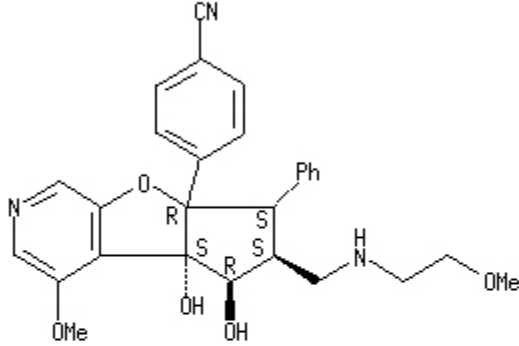
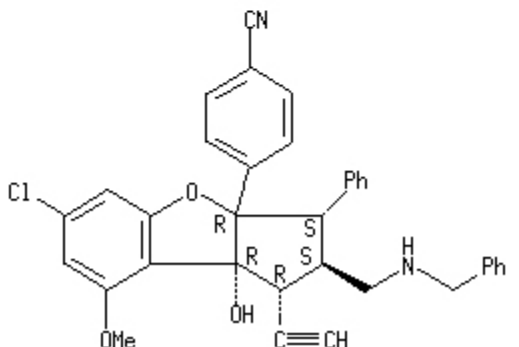
Multiple CA records for a single family...

1.		
Title: Heterocyclic derivatives as eIF4A inhibitors and their preparation		
Accession Number: 2017:1085458		
Hit Structures:		
2098192-11-9 (Cmpd. 1)	Absolute stereochemistry. Rotation (-).	RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
INDEX NAME NOT YET ASSIGNED		prepn. of heterocyclic derivs. as eIF4A inhibitors

2.		
Title: Heterocyclic derivatives as eIF4A inhibitors and their preparation		
Accession Number: 2017:1085457		
Hit Structures:		
2099275-30-4 (Cmpd. 2)	Absolute stereochemistry.	RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
INDEX NAME NOT YET ASSIGNED		prepn. of heterocyclic derivs. as eIF4A inhibitors

Group Mega-TAN records

Simply send to Reference Rows and export!

1. Title: Heterocyclic derivatives as eIF4A inhibitors and their preparation		
Accession Number: 2017:1085458; 2017:1085457		
Hit Structures:		
2098192-11-9 (Cmpd. 1) INDEX NAME NOT YET ASSIGNED	Absolute stereochemistry. Rotation (-). 	RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) prepn. of heterocyclic derivs. as eIF4A inhibitors
2099275-30-4 (Cmpd. 2) INDEX NAME NOT YET ASSIGNED	Absolute stereochemistry. 	RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) prepn. of heterocyclic derivs. as eIF4A inhibitors

Future Directions with Hit Structures

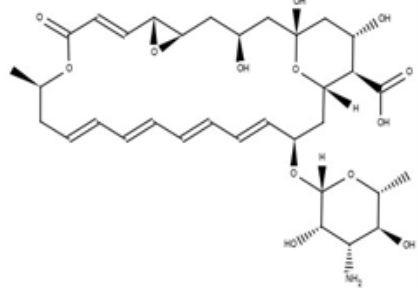
- Options to control display
- Mark new structures in updated reports
- More sources (e.g. MARPAT, DWPIIM)
- Handling of complex structures in REGISTRY
- More export formats
- Hit structures in the table

Support for structure searches on Reaxys

Reaxys structure search example

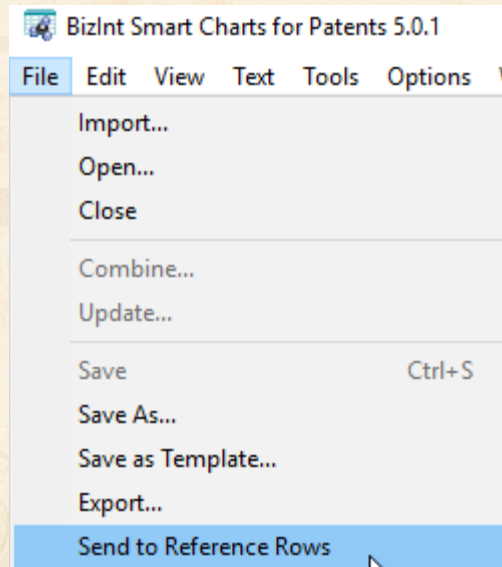
Index of Hit Structures



Substance	Structure	Reference
1 7681-93-8 natamycin		PROCESS TO IMPROVE CROP YIELD Reference 1 SODIUM PHOSPHITE COMBINATIONS Reference 2 ANTIMICROBIAL PEPTIDES COMPRISING EPSILON LYSINE RESIDUES Reference 3
2 XRN 18369022	mixture (composition partially given) natamycin + dipotassium phosphite	SODIUM PHOSPHITE COMBINATIONS Reference 2
3 XRN 32495104	mixture (composition partially given) natamycin + sodium phosphite	SODIUM PHOSPHITE COMBINATIONS Reference 2
4 XRN 32495108	mixture (composition partially given) natamycin + ammonium phosphite	SODIUM PHOSPHITE COMBINATIONS Reference 2

Minimum effort with Reference Rows

- Save chart in BizInt Smart Charts for Patents
- Send to Reference Rows



Minimum effort with Reference Rows

- Generate Common Patent Family (if needed)

Create Reference Rows (1 of 3)

Welcome to the Create Reference Rows Wizard

BizInt Smart Charts Reference Rows offers the ability to create a "Reference Row" which combines information from a set of related records into a single row. The Create Reference Rows Wizard will help you create and set up rules for Reference Rows.

NOTE: Reference Rows are based on the Common Patent Family column in your report. You can generate this column now.

Click Next to continue.



Minimum effort with Reference Rows

- Simply “Finish” on step two

Create Reference Rows (2 of 3)

Database Ranking


Data in cells will be chosen according to the Database Ranking if no other rule is present or if there is a tie in the rules.

Rank the databases in your preferred order

CAS REGISTRY Chemical Abstracts	Move Up
	Move Down
	Properties

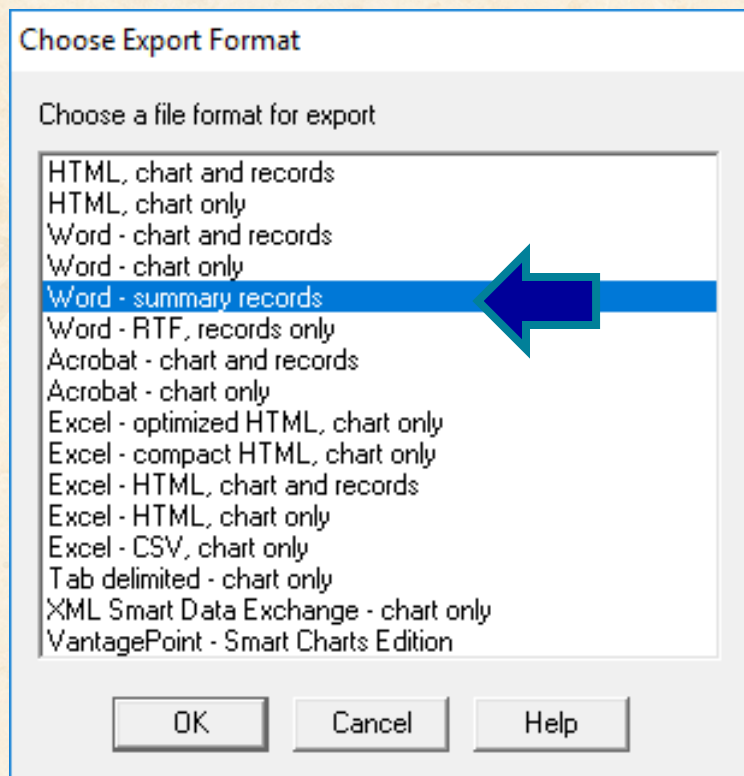
Rules Template

Database rankings and rules based on:



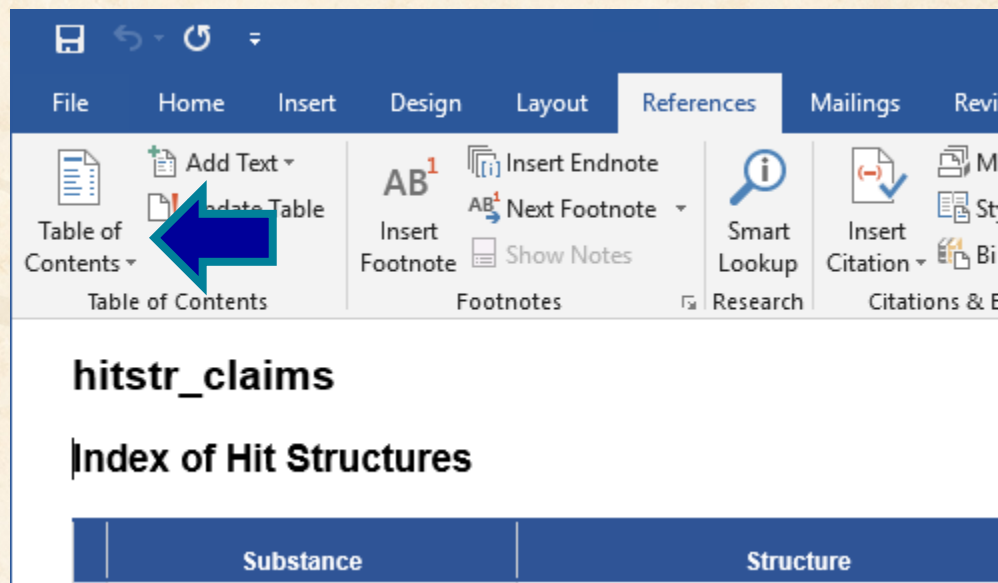
Minimum effort with Reference Rows

- File | Export ... Word - summary records



Summary Records - Table of Contents

- Add a table of contents in Word



Summary Records - Table of Contents

- Sections are marked up for headings
- First column in chart is used as TOC entry

hitstr claims

Contents

[Index of Hit Structures](#)

[References](#)

[Tricyclic benzoxaborole compounds and uses thereof](#)

[Boron-containing small molecules](#)

[Benzoxaborole compounds and uses thereof](#)

Index of Hit Structures

Substance	Structure
-----------	-----------

Summary Records - Table of Contents

- Can collapse the Index of Hit Structures (in recent versions of Word)

▷ **Index of Hit Structures**

References

1.	Title:	Tricyclic benzoxaborole compounds and uses thereof		
	Common Family:	EP 3030519		
	Database:	Chemical Abstracts EP Patents Fulltext		
	Patent Family:	Patent	Kind	Date
		WO 2015021396	A2	20150212
		WO 2015021396	A3	20151029

F

Best Practices

- Typical use as described by Marley at PIUG 2018 Annual Meeting is to display structures exemplified in CAplus records (the Index of Hit Structures)
- Plus a separate table of non-exemplified structures from REGISTRY
- Today, this should be done as two chart files
- Also, today we do not capture complex structures from REGISTRY

Best Practices

- The hit structure displays are driven by the “Hit Index Terms” column
- You can remove a compound from the hit structure display and the index by removing the CAS REGISTRY Number from the Hit Index Terms column

Hit Index Terms		
RN	Role	Notes
1364682-96-1P 1364683-03-3P	RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)	prepn. of benzoxaborole derivs. useful for treating bacterial infections
1364684-69-4P 1364684-75-2P	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)	prepn. of benzoxaborole derivs. useful for treating bacterial infections

Non-Patent Literature

- For a long time, Literature has been a second class citizen in BizInt Smart Charts
- New project to improve Literature support
- Identify citations to the same document
- “Deduplicate” and integrate unique content

Non-Patent Literature

- Identify Common Document tool

	Title	Common Document ID	Database	Document Type	Source
1	Sample size requirements for one-year treatment effects using deep gray matter volume from 3T MRI in progressive forms of multiple sclerosis	PMID: 28100092	MEDLINE	Journal Article	The International journal of Neuroscience (Nov 2017), vol. 127, no. 11, p. 971-980.
2	Sample size requirements for one-year treatment effects using deep gray matter volume from 3T MRI in progressive forms of multiple sclerosis	PMID: 28100092	EMBASE	Article	International Journal of Neuroscience (Nov 2, 2017), vol. 127, no. 11, p. 971-980.
3	Patient selection for trials	BDOI:WOLINSKY-JERRY S 10.1177/1352458517729458 1636	MEDLINE	Journal Article	Multiple sclerosis (Houndmills, Basingstoke, England) (Oct 2017), vol. 23, no. 12, p. 1636-1641.
4	Patient selection for trials	BDOI:WOLINSKY-JERRY S 10.1177/1352458517729458 1636	EMBASE	Article	Multiple Sclerosis Journal (2017), vol. 23, no. 12, p. 1636-1641.
5	Patient selection for trials	BDOI:WOLINSKY-JERRY S 10.1177/1352458517729458 1636	EMBASE	Article	Multiple Sclerosis (Oct 1, 2017), vol. 23, no. 12, p. 1636-1641.
6	Patient selection for trials	BDOI:WOLINSKY-JERRY S 10.1177/1352458517729458 1636	BIOSIS Previews	Literature Review	Multiple Sclerosis Journal (Oct 2017), vol. 23, no. 12, Sp. Iss. SI, p. 1636-1641.

Non-Patent Literature

- Identify Common Document tool
- Additional fields for analysis (year, first author, author/affiliation linkage)
- Additional databases on STN
- Additional databases on ~~ProQuest~~ Dialog
- Starting discussions for Web of Science, Scopus
- Literature support in all products

Identify Common Document ID

- Definitive identifiers (when available)
- DOI with qualifiers
- Blend of First Author, ISSN, Page, etc. when no common identifiers are available
- Currently working through issues identified during first tests

Best Practices

- Keep your transcripts!
- As we improve displays, some features may require re-importing transcripts.
- Common Document ID is a case where improved matching may depend on re-importing your transcript.

Best Practices

- Keep your chart files!
- Even though you may have delivered a report to your client, if they ask for changes (additional fields, different sort order) it is easier to start from a prepared chart than from scratch.

Best Practices

- Keep your chart files!
- This month's report can be the baseline for an updated report.
- You can Update a report to see which families are new in your results and which have changed.

PatBase: Natamycin_Update								
Title	Row Status	Patent Family			Priority Data		Applications	
		Patent	Kind	Date	Number	Date	Application	Date
SUBMICRON NATAMYCIN PARTICLE	Added	WO 15044465	A2	2015-04-02	EP20140167408	2014-05-07	WO2015EP50647	2015-01-15
		WO 15044465	A3	2015-05-21	EP20140192514	2014-11-10	WO2015EP50647	2015-01-15
COMPOSITION COMPRISING A PESTICIDAL TERPENE MIXTURE AND A FUNGICIDE	Updated	WO 14020109	A1	2014-02-06	EP20120179145	2012-08-03	WO2013EP66178	2013-08-01
		AU 2013298562	AA	2014-02-06	WO2013EP66178	2013-08-01	AU20130298562	2013-08-01
		CA 2880671	AA	2015-01-30			CA20132880671	2013-08-01
		AR 091953	AA	2015-03-11			AR2013P102729	2013-08-01
		KR 20150041638	A	2015-04-16			KR20157004997	2013-08-01

Updating reports

- File | Update
- The “key” chart is your baseline - your existing report, against which new data is compared
- Rows from the baseline are copied in order to the new chart... new records added at bottom... changed records remain in position from baseline chart.

Updating reports

PatBase: Natamycin_Update

	Title	Row Status	Patent Family			Priority Data
			Patent	Kind	Date	Number
1	PROCESSED EDIBLE PRODUCT COMPRISING A POLYELECTROLYTE AND AN ANIONIC COMPOUND	Unchanged	WO 15034360	A1	2015-03-12	EP20130183018
2	SYNERGIC COMPOSITIONS OF LACTOPEROXIDASE					

Sort Rows

Columns:

- Abstract
- Application Date
- Application Number
- Citations
- Claims
- CPC
- Designated States
- ECLA Class
- Forward Citations
- Full Text Link
- International Patent Class
- Inventor(s)
- Inventor(s) (Non-standardized)
- Latest Legal Status
- Legal Status

Sort Order:

Row Status

Sort

Cancel

Help...

Alternate row shading when primary sort key changes

Sort Row Status (descending) to bring new content to top, followed by changes

Updating reports

PatBase: Natamycin_Update									
	Title	Row Status	Patent Family			Priority Data		Applications	
			Patent	Kind	Date	Number	Date	Application	Date
2	SUBMICRON NATAMYCIN PARTICLE	Added	WO 15044465	A2	2015-04-02	EP20140167408	2014-05-07	WO2015EP50647	2015-01-15
			WO 15044465	A3	2015-05-21	EP20140192514	2014-11-10	WO2015EP50647	2015-01-15
3	COMPOSITION COMPRISING A PESTICIDAL TERPENE MIXTURE AND A FUNGICIDE	Updated	WO 14020109	A1	2014-02-06	EP20120179145	2012-08-03	WO2013EP66178	2013-08-01
			AU 2013298562	AA	2014-02-06	WO2013EP66178	2013-08-01	AU20130298562	2013-08-01
			CA 2880671	AA	2015-01-30			CA20132880671	2013-08-01
			AR 091953	AA	2015-03-11			AR2013P102729	2013-08-01
			KR 20150041638	A	2015-04-16			KR20157004997	2013-08-01

Updating reports (family oriented)

- “Added” means this is a new family in this report
- “Updated” means the family was seen before but has new/changed information
- “Unchanged” means the family has not changed from the baseline

Updating reports (publication level)

- “Added” means this is a new publication in this report
- “Updated” means the publication has been changed (typically added indexing)
- “Unchanged” means the publication has not changed from the baseline

But what can we tell about the invention?

Updating reports (publication level data)

Natamycin_Innovation_Updated						
	Title	Common Family	Row Status	Database	US Patent Number	Pate
1	Agricultural product used for e.g. controlling plant disease and treating fungal diseases caused by fungi such as Fusarium semitectum comprises polyene antifungal compound and antifungal compound from family of strobilurin fungicides	WO 2012117049	Unchanged	Thomson Innovation + DWPI	US 20130324402 A1 US 9034792 B2	DSM IP. DSM IN PROPE MANAGI
2	Treating/preventing occurrence/recurrence of Clostridium difficile infection by administering composition comprising two purified bacterial populations comprising bacteria having 16S ribosomal RNA sequence identical to reference bacterium	US 20140199281	Unchange			RES
	Processing biomass to produce e.g. feed products, antibiotics involves processing polysaccharide based biomass using e.g. pyrolysis, sonication to form processed material with low recalcitrance level followed by microbial conversion	WO 2009134791	Unchange			ECC

- Records
- Record on Publisher Website
- Publisher Images
- Column Properties...
- Row Properties...
- Add Row
- Hide Row Ctrl+H
- Move Row Ctrl+M
- Hide Column
- Sort...
- Statistics...
- Highlight cells Ctrl+L
- Highlight rows Ctrl+Shft+L
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Font

Updating reports (publication level data)

- Derwent Innovation
natamycin & ic=A23 & PD>=2011
- At the publication level we see:

	A	B
1	Row Status	Count
2	Unchanged	241
3	Added	150

Updating reports (publication level data)

- Send updated chart to Reference Rows

Column Rule - Row Status

Row Status
Choose how Reference Rows will select data for this column.

Selection Rule: Summarize Unique Values

Match column:

Database Ranking for

Thomson Innovation
Thomson Innovation

OK Cancel

Unchanged	Thomson Innovation + DWPI	US 20100124583 A1	XYLECO INC	Medoff, Marshall	US20084940 US20087367
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Updating reports (publication level data)

- Statistics on the Summarized Row Status

	A	B
1	Row Status	Count
2	Unchanged	93
3	Added	43
4	Unchanged	1
5	Added	53
6		

Updating reports (publication level data)

Natamycin_Innovation_Updated							
	Title	Common Family	Row Status	Patent Family			Patent Assignee
				Patent	Kind	Date	
149 .1	Composition, useful for protecting product including food product, feed product, pharmaceutical product, cosmetic product and agricultural product against fungi, comprises polyene antifungal compound and lactoperoxidase system	WO 2014083048	Unchanged	WO 2014083048	A1	2014-06-05	DSM IP ASSETS BV
149 .2	Composition, useful for protecting product including food product, feed product, pharmaceutical product, cosmetic product and agricultural product against fungi, comprises polyene antifungal compound and lactoperoxidase system	WO 2014083048	Added	WO 2014083048 EP 2925167 US 20150282489 CN 104883912	A1 A1 A1 A	2014-06-05 2015-10-07 2015-10-08 2015-09-02	DSM INTELLECTUAL PROPERTY ASSETS MANAGE DSM IP ASSETS BV RAVENSBERG W J STARK J WEBER F J
149 .3	Composition, useful for protecting product including food product, feed product, pharmaceutical product, cosmetic product and agricultural product against fungi, comprises polyene antifungal compound and lactoperoxidase system	WO 2014083048	Added	WO 2014083048 EP 2925167 US 20150282489 CN 104883912	A1 A1 A1 A	2014-06-05 2015-10-07 2015-10-08 2015-09-02	DSM INTELLECTUAL PROPERTY ASSETS MANAGE DSM IP ASSETS BV RAVENSBERG W J STARK J WEBER F J

Updating reports (publication level data)

Visualize results:

- Create subtable
- Summarize all values
- Export

Family Status		
Pub. Number	Row Status	

WO 2014179204 A1	Unchanged	153.1
US 20160095331 A1	Added	153.2
EP 2991504 A1	Added	153.3

WO 2015024751 A1	Unchanged	154.1
EP 3062626 B1	Added	154.2
EP 3062626 A1	Added	154.3

WO 2015034360 A1	Unchanged	155.1
US 20160213051 A1	Added	155.2
EP 3041367 A1	Added	155.3

Update - next steps

- We are working on a project to simplify the process I just showed.
- Identify the status of families after an update - even when the update comes from another publication or family record.
- Identify which publications changed in the family.
- “Composite” family displays



Thank you...
Questions???

Lunch

- There are box lunches in the Bell room
- If you registered for either the BizInt or the Apteian GenomeQuest workshops, we have a lunch for you

Lunch

