



Software for
Business Intelligence

BizInt Smart Charts

Wake up! with BizInt Smart Charts for Patents

John Willmore, BizInt Solutions

PIUG Annual Conference, 2 May 2022



BizInt Smart Charts

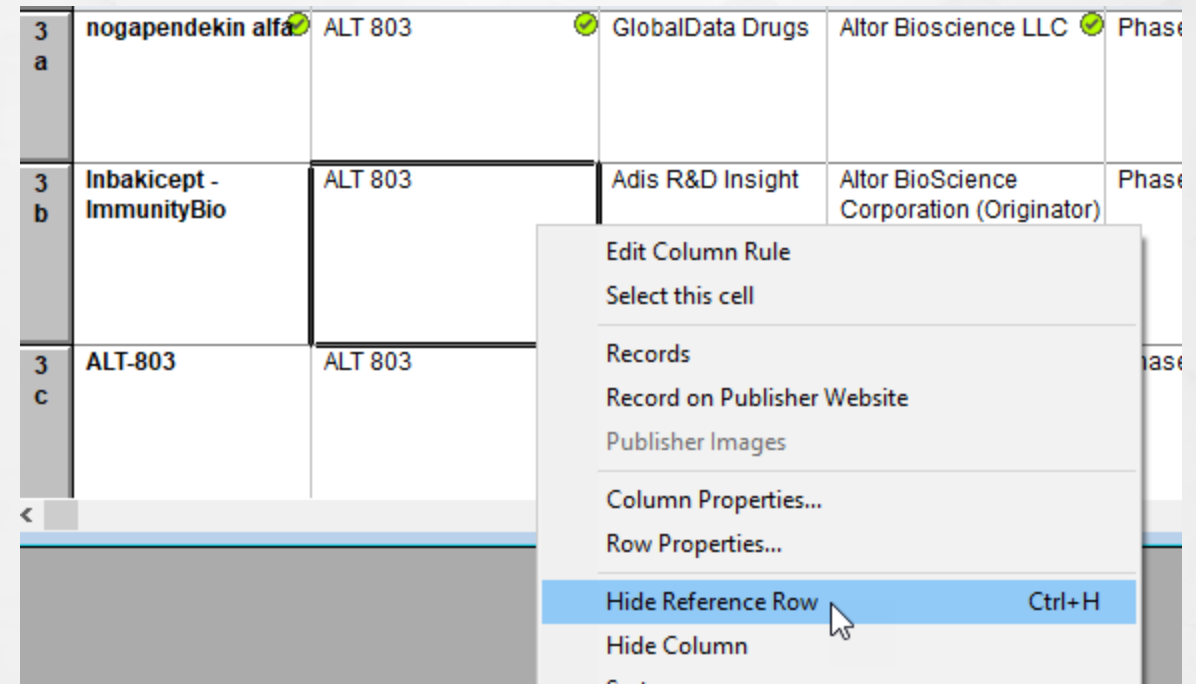
Agenda

- Reference Rows
- Sources and Databases
- STNext
- Hit Term Highlights
- Roadmap for 2022 Development
- Q&A



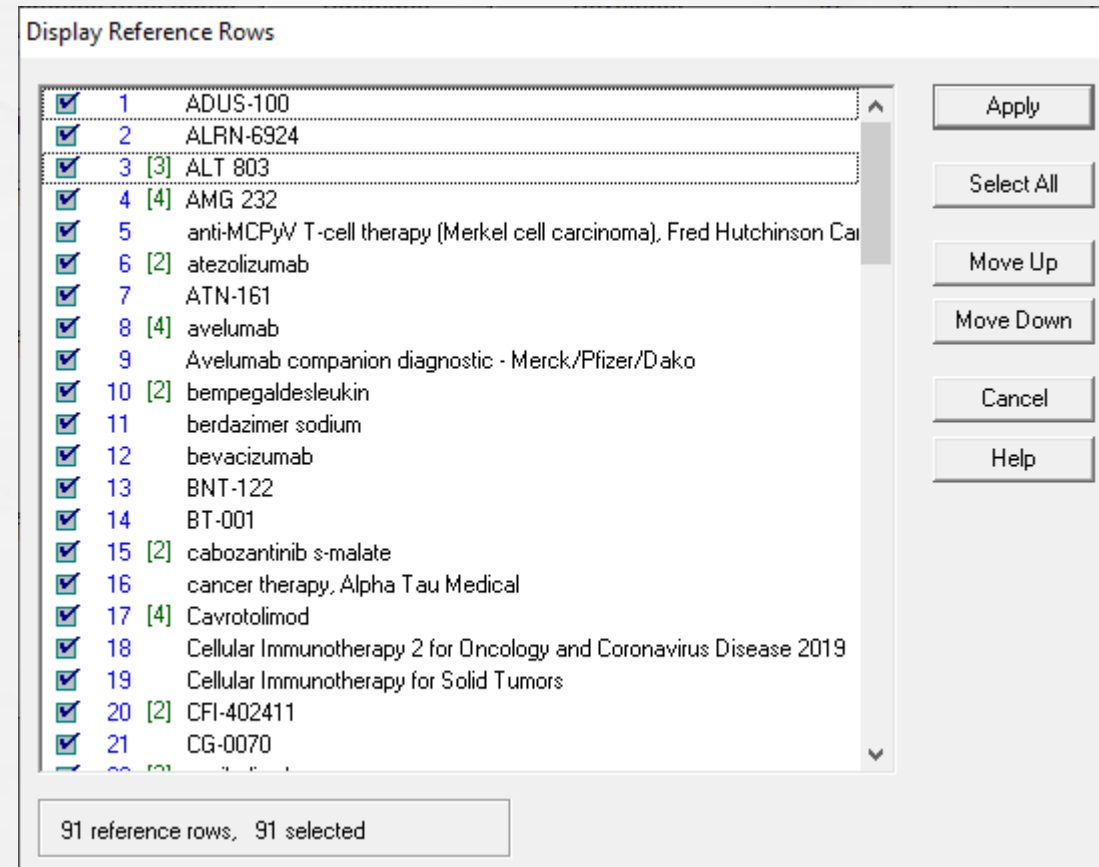
Hide Reference Rows

- The #1 most requested feature in BizInt Smart Charts is now here! **Hide Reference Row**
- Right click on any component row in a Reference Row to hide the entire group.
- All rows are hidden when you return to Smart Charts



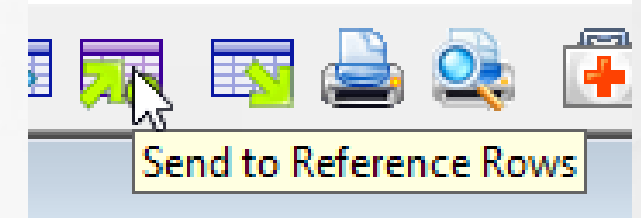
View | Reference Rows

- With View | Reference Rows you can **hide**, **show**, and **rearrange** the Reference Rows in your chart
- The green number on some rows is the number of visible source rows in the group.



Reference Rows Workflow Improvements

- No wizard (go directly to the selection view)
- Chart does not need to be saved
- Chart can come from a single database



Combined: MCC Combined - March 2021

	Drug Name	Common Drug Name	Database	Developer	Highest Phase (Normalized)	Therapeutic Activity	Route of Admin	Update Date
1	ADUS-100	ADUS-100	GlobalData Drugs	Chinook Therapeutics Inc	Discontinued	L03AX Other immunostimulants	Intratumor Intravesical	2020-11-26
2	ALRN-6924	ALRN-6924	GlobalData Drugs	Aileron Therapeutics Inc	Phase 2	L01XX Other antineoplastic agents	Intravenous	2021-03-04
3 a	nogapendekin alfa	ALT 803	GlobalData Drugs	Altor Bioscience LLC	Phase 3	J05AR Antivirals for treatment of HIV infections, combinations L03AC Interleukins	Intraperitoneal Intravenous Intravesical Parenteral Subcutaneous	2021-03-25
3 b	Inbakicept - ImmunityBio	ALT 803	Adis R&D Insight	Altor BioScience Corporation (Originator) NantKwest (Originator)	Phase 2/3	J1X (Other Antibacterials) J5 (Antivirals for Systemic Use) L1X (All Other Antineoplastics) L1X9 (All other antineoplastics) L3A (Immunostimulating Agents Excluding Interferons)	Intraperitoneal Intravesicular IV Parenteral SC	2021-03-11
	ALT 803	ALT 803	Citeline	Altor BioScience	Phase 2	Fusion protein	Injectable	2020-12-24

Reference Rows Workflow Improvements (2)

- Quick preview to see how rules work
- Opens an HTML export in your browser using your last export settings



	Title	Common Family	Basic Patent Number	Inventor(s)	Patent Assignee	Hit PatentPak	
						RN	Location
1.	Benzoxaborole compounds and uses thereof	WO 2016128949	WO 2016128949 A1	Alley, M. R. K. Barros-Aguirre, David Giordano, Ilaria Hernandez, Vincent Li, Xianfeng Plattner, Jacob J.	GlaxoSmithKline Intellectual Property (No.2) Limited, UK Anacor Pharmaceuticals, Inc.	1655492-02-6P	Pg 85
	1 CA		1 CA	1 CA	1 CA		1 CA
2.	Tricyclic benzoxaborole compounds and uses thereof	WO 2015021396	WO 2015021396 A2	Alley, M. R. K. Hernandez, Vincent S. Plattner, Jacob J. Li, Xianfeng Barros-Aguirre, David Giordano, Ilaria	GlaxoSmithKline Intellectual Property (No.2) Limited, UK Anacor Pharmaceuticals, Inc.	1655492-02-6P	Pg 62
	2 CA		2 CA	2 CA	2 CA		2 CA

Reference Rows Workflow Improvements

- Let's see that in action...

Reference Rows Appearance Changes

Combined: MCC Combined - March 2021

New Selection Glyphs

Singleton rows have simple row numbers

Source rows now have a letter instead of a decimal number

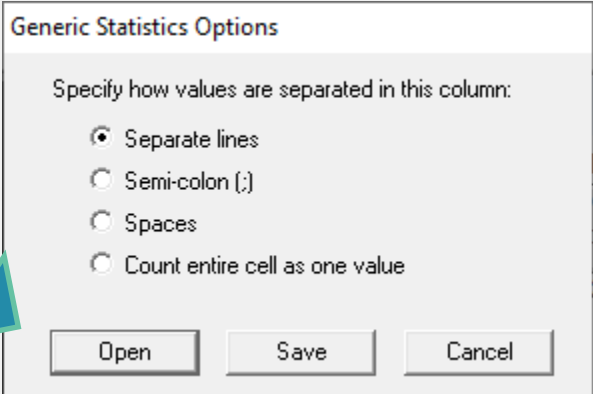
	Drug Name	Common Drug Name	Database	Developer
1	ADUS-100	ADUS-100	GlobalData Drugs	Chinook Therap Inc
2	ALRN-6924	ALRN-6924	GlobalData Drugs	Aileron Therape
3 a	nogapendekin alfa	ALT 803	GlobalData Drugs	Altor Bioscienc
3 b	Inbakicept - ImmunityBio	ALT 803	Adis R&D Insight	Altor BioScienc Corporation (Or NantKwest (Ori
3 c	ALT 803	ALT 803	Citalin	Altor BioScienc

Common Patent Family

- New behavior: Automatically identified when charts are combined or updated
- This was a major training issue in the past
- If you are modifying the common patent family, do it after combine/update

Export and Statistics Workflow Improvements

- New option to directly open the export or statistics without having to specify a file name
- Creates a file in your temporary directory
- Excel exports open without warning messages

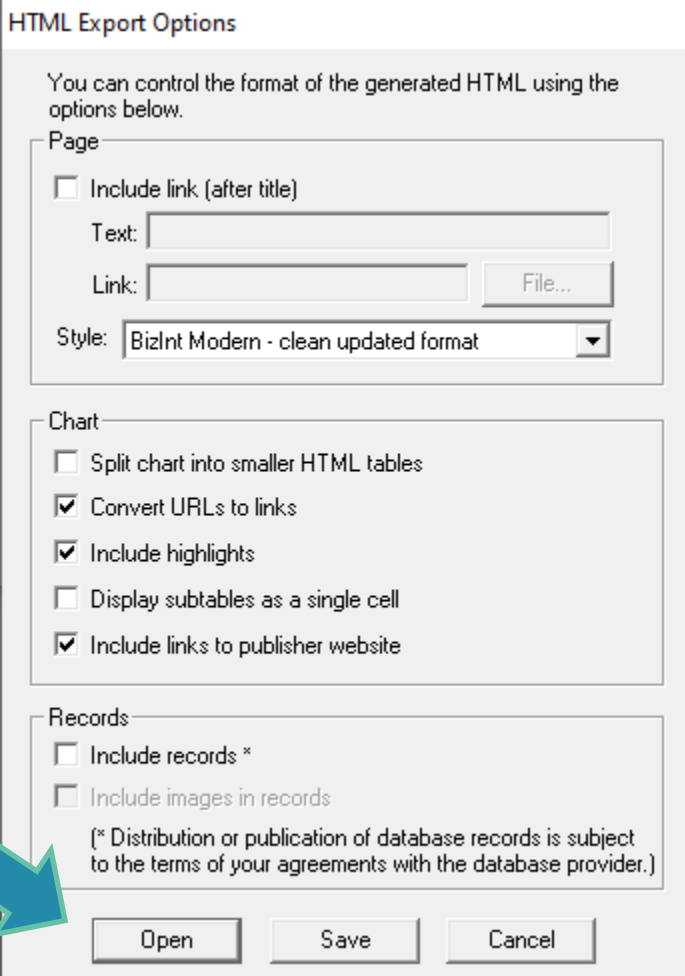



Generic Statistics Options

Specify how values are separated in this column:

- ☒ Separate lines
- ☐ Semi-colon (,)
- ☐ Spaces
- ☐ Count entire cell as one value

Open Save Cancel



HTML Export Options

You can control the format of the generated HTML using the options below.

Page

- ☐ Include link (after title)
Text:
Link: File...
Style: BizInt Modern - clean updated format

Chart


- ☐ Split chart into smaller HTML tables
- ☒ Convert URLs to links
- ☒ Include highlights
- ☐ Display subtables as a single cell
- ☒ Include links to publisher website

Records

- ☐ Include records *
- ☐ Include images in records

(* Distribution or publication of database records is subject to the terms of your agreements with the database provider.)

Open Save Cancel



Patent Databases

Provide data on patents filed worldwide

- STN - STNext (also Classic & New STN)
- Questel Orbit.com
- Minesoft PatBase
- Derwent Innovation
- Clarivate Cortellis IP, CDDI Patents
- GQ LifeSciences LifeQuest



Database Changes (STN)

- Added support for PSPI in CAplus and MARPAT

Family Status		Status	Patent Family Status			
Patent	Status		Patent	Kind	Status	Status Date
WO 2021203539 A1	Alive	Alive	WO 2021203539	A1	Alive	20211021
CN 111493266 A	Alive		CN 111493266	A	Alive	20201121
CN 111493266 B	Alive		CN 111493266	B	Alive	20211007

- Support Claims in CAplus
- Added support for INFULL, JPFULL, KRFULL, RUFULL
- Cleaned up handling for all fulltext files (esp. Claims)
- Better handling of greeks on STNext

Database Changes

- Fix formatting problems with Notes (PatBase)
- Member List now appears as a separate field rather than adding the list to the family (PatBase publication level)
- Fixed problem with WO publication numbers in Cortellis Patents exports

IP Sequence Databases

Provide data on sequences filed in patents

- GenomeQuest (Geneseq, GQ-PAT, **virtual DBs**)
- STN (**USGENE**, **GENESEQ**, **PATGENE**)
- CAS Biosequences on GenomeQuest
- Orbit BioSequences
- Derwent SequenceBase



Database Changes (Version 5.6.4)

- Support for Virtual Databases on GenomeQuest
- Complete rework of sequence databases on STNext
USGENE, GENESEQ, PATGENE
Only in BizInt export from STNext



Literature Databases

Provide data on technical and scientific publications

- **Biomedical** (Embase, Biosis, Medline)
- **Scientific** (SciSearch, Chemical Abstracts, PQSciTech, etc.)
- **Technical** (INSPEC, RAPRA, GEOREF, etc.)
- **Hosts:** STN (Classic & New), SciFinder, Dialog, Ovid, PubMed



Literature Databases

- Added support for Tagged Text on PubMed
- Added support for CAB Abstracts on Ovid
- Added support for Current Contents, Derwent Drug File, IPA, SciSearch on Dialog
- Added support for Supplemental Terms in Medline (STN)
- Added CAlus + Medline support on SciFinder

Author Affiliation table

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- Available today on ProQuest Dialog

Clinical Trials Databases

Provide data on drug trials worldwide

BizInt Smart Charts

Drug Development Suite

Commercial:

- Citeline TrialTrove
- Adis Clinical Trials Insight
- Cortellis Trials Intelligence
- **GlobalData Clinical Trials**

Public registries:

- ClinicalTrials.gov
- WHO ICTRP
- EU Clinical Trials (EudraCT)



Drug Pipeline Databases

Provide data on drugs in development worldwide

BizInt Smart Charts

Drug Development Suite

- Citeline Pharmaprojects
- IMS R&D Focus
- Adis R&D Insight
- Clarivate Cortellis
- Cortellis Drug Discovery Intelligence (Integrity)
- **GlobalData Pipeline Drugs**
- And, support for Infodesk PipelinePlus



TrialTrove and PharmaProjects

- Changes in progress for release later this spring
- TrialTrove: adding drug targets; oncology biomarkers; endpoint keywords
- PharmaProjects: adding detailed indication-phase-region table

Adis Insight

- Changes in progress for release this summer
- Drugs: adding future events, patient population details
- Safety: adding additional drug details
- Trials: identify key drugs; add biomarkers
- Deals: add BizInt export
- Import performance improvements

Clinical Trial Registries

- **ClinicalTrials.gov**
 - in beta with a new interface
 - New export format
 - Expect initial support this summer
- **EU Clinical Trials Registry**
 - is getting closer to a new system
 - Hoping to see a new unified export this year

STNext BizInt Export

- New BizInt report format available on STNext
- Supported in Version 5.6
- More reliable field extraction
- Includes hit term highlights
- Can select answer sets, display commands, records
- bizint.com/support/create/stnext.php

www.bizint.com

STNext Reports and Templates

MEDLINE
Record

BIB AB

Journal
Template

BizInt
Definition

Columns

BizInt
Chart

STNext

Transcript ONmedl_willmore_epilepsy

File MEDLINE

L5 ANSWER 2 OF 86 MEDLINE on STN

AN 2013550380 MEDLINE Full-text

DN PubMed ID: 23585123

TI Hippocampal gene expression profiling in a rat model of posttraumatic epilepsy reveals temporal upregulation of lipid metabolism-related genes.

AU Ueda Yuto

CS Section of Psychiatry, Department of Clinical Neuroscience, Faculty of Medicine, University of Miyazaki, Miyazaki, 889-1692, Japan.

AU Kitamoto Aya; Willmore L James; Kojima Toshio

SO Neurochemical research. (2013 Jul) Vol. 38, No. 7, pp. 1399-406.

Electronic Publication Date: 13 Apr 2013

Journal code: 7613461. E-ISSN: 1573-6903. L-ISSN: 0364-3190.

DOI http://dx.doi.org/10.1007/s11064-013-1037-9

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS MEDLINE; Priority Journals

FS Print; Electronic

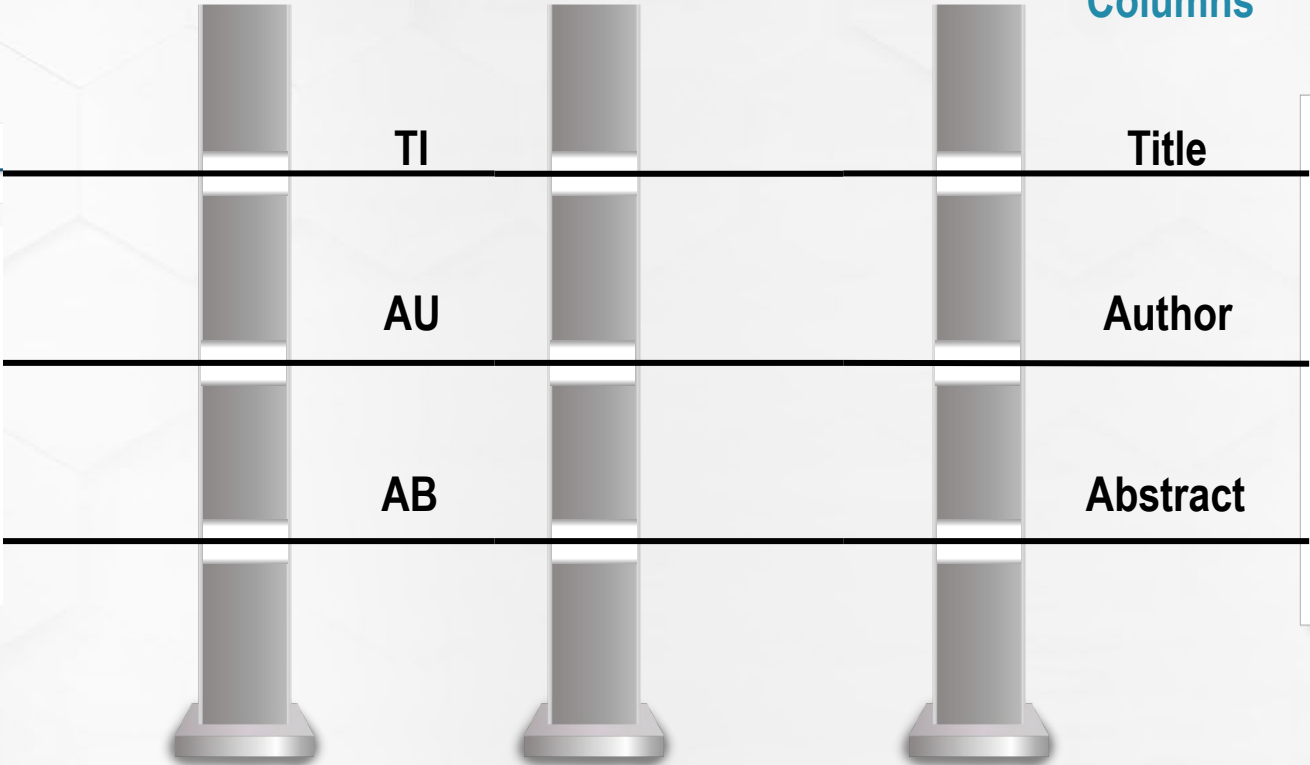
EM 201401

ED Entered STN: 16 Apr 2013

Last Updated on STN: 28 Jan 2014

Indexing Added: 28 Jan 2014

Entered Medline: 24 Jan 2014



	Drug	Common Drug Name	Database	Synonyms	Highest Phase	Companies	Last Update
1	Pretium	Pretium	Donec	Velut auctor Diam gravida Lobortis leo bibendum	Phase 3	Lobortis Turpis Aliquam Sodales	2012-11-17
2	Pretium XGS	Pretium	Loaent Sem	Velut auctor Diam gravida XS-2	Phase2	Lobortis Turpis Aliquam Sodales	2012-10-01
3	Sollicitudin 4S	Sollicitudin	Donec	Quam diam Augue du	Phase 3	Egestas Condernum Lobortis Turpis	2011-12-07
4	Sollicitudin	Sollicitudin	Elifend-UR	Quam diam Augue du Ametan id lacus	Phase 3	Egestas Condernum	2011-06-07
5	Etiam Mollis	Etiam Mollis	Loaent Sem	Adipiscing Proin Mattis Faucibus lacus	Phase 3	Condernum Est	2012-01-13
6	Etiam Mollis	Etiam Mollis	Elifend-UR	Adipiscing Et Sec Proin Mattis Faucibus	Phase 2	Condernum Est	2012-01-13
7	Toror Felis	Toror Felis	Donec	Aenean lectus purus Nulla sit amet Quisque placerat 2A	Phase 2	Loaent	2011-06-03
8	Toror Felis III	Toror Felis	Loaent Sem	Aenean lectus purus Quisque placerat	Phase 2	Loaent	2011-06-03
9	Consectetur	Consectetur	Donec	Purus non urna Ugula est Quam sem ac	Phase 3	Lobortis Turpis	2012-03-01
10	Consectetur 2A	Consectetur	Nullam	Purus non urna Ugula est Quam sem ac	Phase 3	Lobortis Turpis	2012-03-01

STNext Reports and Templates

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Record

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File EPFULL

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ANSWER 1 OF 1 EPPULL COPYRIGHT 2022 LNU on STN.

AN

1992589 EPPULL EDP 20210308 ED 20210308 UP 20211125 EDTX 20210308 DED 20110331 DUPO 20211118 Full-text

TIE

PYRAZOLO[3,4-B]PYRIDINE COMPOUNDS, AND THEIR USE AS PDE4 INHIBITORS

TIFR

COMPOSES DE PYRAZOLO[3,4-B]PYRIDINE ET LEUR UTILISATION COMME INHIBITEURS DE PDE4

TIDE

PYRAZOLO[3,4-B]PYRIDINVERBINDUNGEN UND IHRE VERWENDUNG ALS PDE4-INHIBITOREN

IN

EDLIN, Christopher, David, GlaxoSmithKline Gunnels Wood Road, Stevenage Hertfordshire SG1 2NY, GB
HOLMAN, Stuart, GlaxoSmithKline Gunnels Wood Road, Stevenage Hertfordshire SG1 2NY, GB
JONES, Paul, Spencer, GlaxoSmithKline Gunnels Wood Road, Stevenage Hertfordshire SG1 2NY, GB
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PAS

GLAXO GROUP

PAN

GLAXOSMITHKLINE

AG

Gladwin, Amanda Rachel, GlaxoSmithKline Corporate Intellectual Property CN925.1 980 Great West Road, Brentford, Middlesex TW8 9GS, GB

LAF

English

LA

English

DT

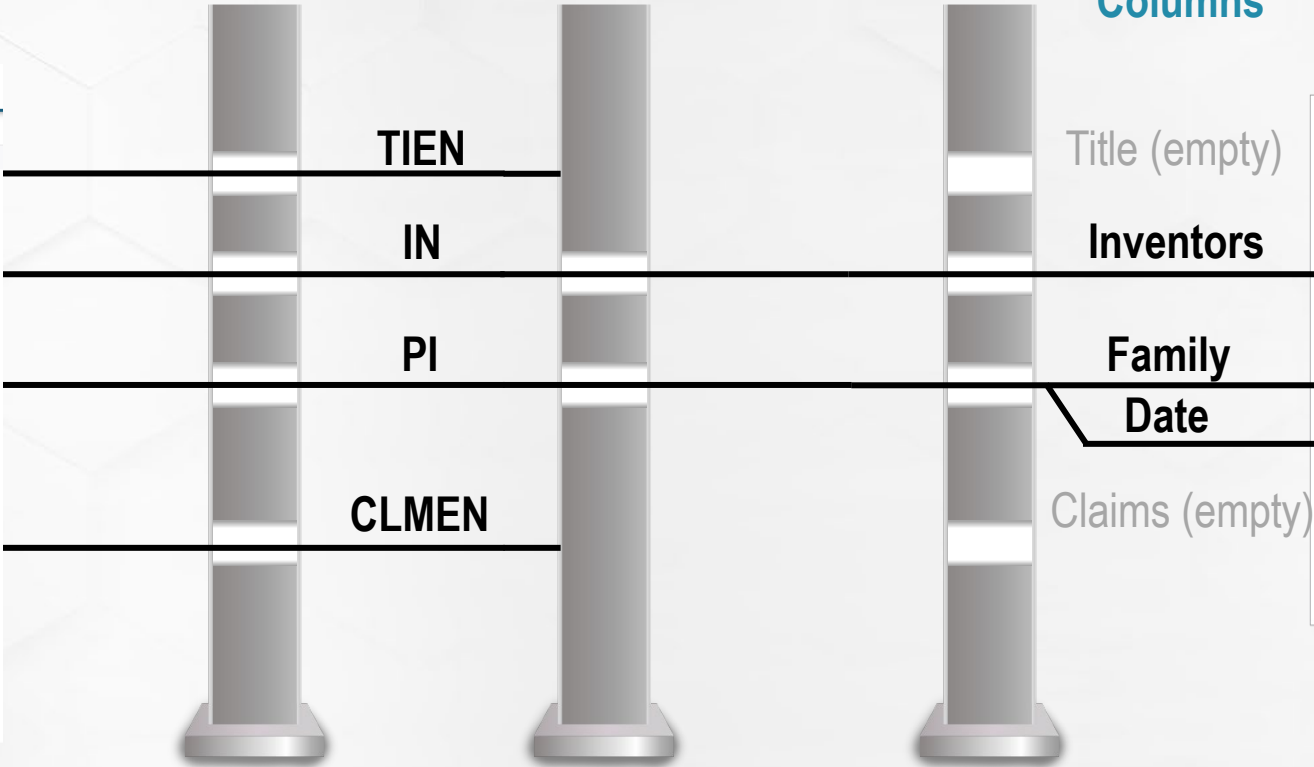
Patent; (Fulltext)

PI

EP 1940835 B1 20110330

DS

R: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC NL PT RO SE SK SI TR



	Drug	Common Drug Name	Database	Synonyms	Highest Phase	Companies	Last Update
1	Pretium	Pretium	Donec	Varus auctor Diam gravida Lobortis leo bibendum	Phase 3	Lobortis Turpis Aliquam Sodales	2012-11-17
2	Pretium XGS	Pretium	Loreset Sem	Varus auctor Diam gravida XS-2	Phase2	Lobortis Turpis Aliquam Sodales	2012-10-01
3	Sollicitudin 4S	Sollicitudin	Donec	Quam diam Augue sit Ametan id lacus	Phase 3	Egestas Condernum Lobortis Turpis	2011-12-07
4	Sollicitudin	Sollicitudin	Elifend-UR	Quam diam Augue sit Ametan id lacus	Phase 3	Egestas Condernum	2011-06-07
5	Etiam Mollis	Etiam Mollis	Loreset Sem	Adipiscing Proin Mattis Faucibus lacus	Phase 3	Condernum Est	2012-01-13
6	Etiam Mollis	Etiam Mollis	Elifend-UR	Adipiscing Et Sct Proin Mattis Faucibus	Phase 2	Condernum Est	2012-01-13
7	Toror Felis	Toror Felis	Donec	Aenean lectus purus Nulla sit amet Quisque placerat 2A	Phase 2	Loreset	2011-06-03
8	Toror Felis III	Toror Felis	Loreset Sem	Aenean lectus purus Quisque placerat	Phase 2	Loreset	2011-06-03
9	Consectetur	Consectetur	Donec	Purus non urna Ligula est Quam sem ac	Phase 3	Lobortis turpis	2012-03-01
10	Consectetur 2A	Consectetur	Nullam	Purus non urna Ligula est Quam sem ac	Phase 3	Lobortis turpis	2012-03-01

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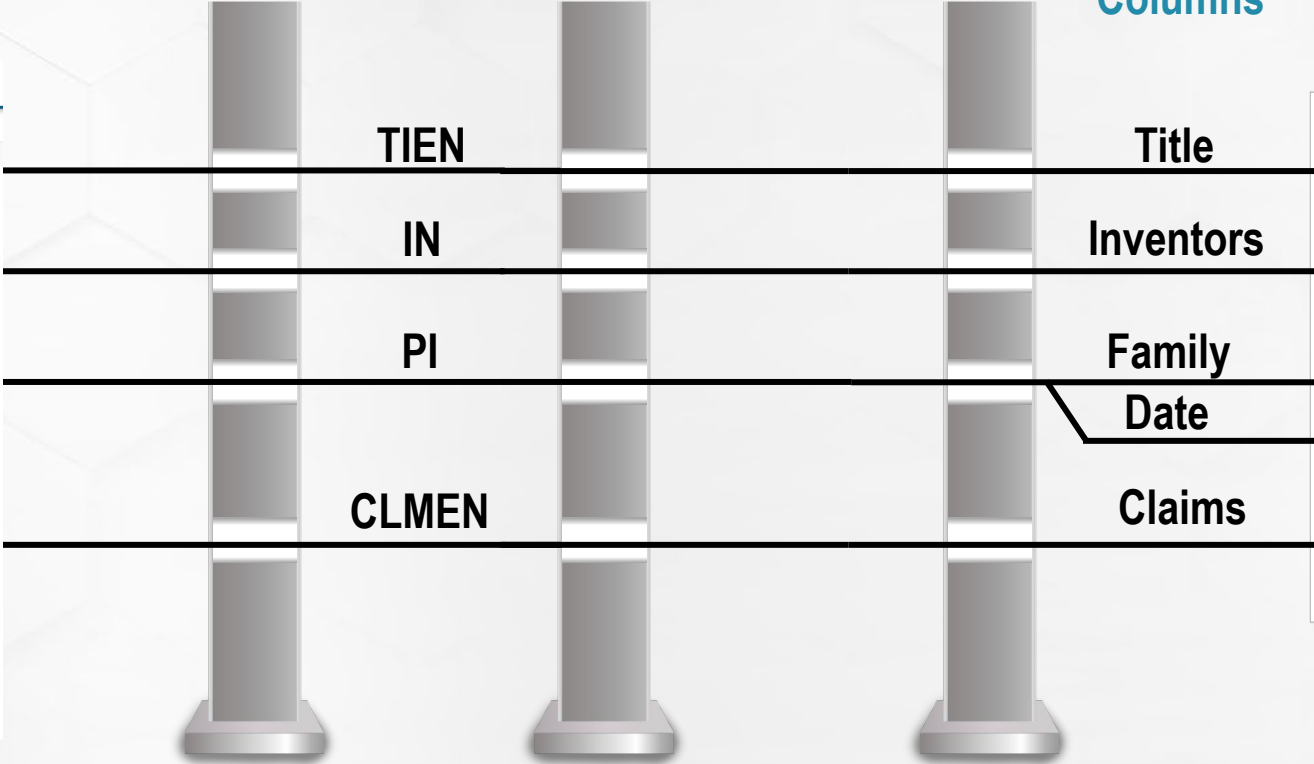
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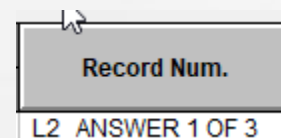
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4	Sollicitudin	Sollicitudin	Elitend-UR	Quam diam Augue sit Ametan id lacus	Phase 3	Egestas Condernum	2011-06-07
5	Etiam Mollis	Etiam Mollis	Loreset Sem	Adipiscing Proin Mattis Faucibus lacus	Phase 3	Condernum Est	2012-01-13
6	Etiam Mollis	Etiam Mollis	Elitend-UR	Adipiscing Et Ssc Proin Mattis Faucibus	Phase 2	Condernum Est	2012-01-13
7	Toror Felis	Toror Felis	Donec	Aenean lectus purus Nulla sit amet Quisque placerat 2A	Phase 2	Loreset	2011-06-03
8	Toror Felis III	Toror Felis	Loreset Sem	Aenean lectus purus Quisque placerat	Phase 2	Loreset	2011-06-03
9	Consectetur	Consectetur	Donec	Purus non urna Ligula est Quam sem ac	Phase 3	Lobortis turpis	2012-03-01
10	Consectetur 2A	Consectetur	Nullam	Purus non urna Ligula est Quam sem ac	Phase 3	Lobortis turpis	2012-03-01

STNext Reports - Caveats

- A field displayed in your transcript will only appear in your BizInt chart if the STNext report template passes it through
- Beware of some common issues:
 - claims are not included in the standard Patent template
 - “Title” template item does not include TIEN, TIDE, TIFR
- RTF transcripts are still supported on STNext
But some future files may only work via the BizInt export

Special Fields in Templates

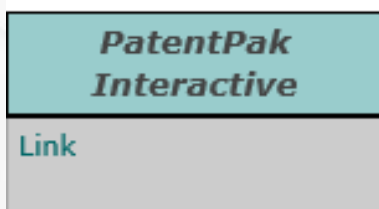
- In addition to making sure your template includes all of your display fields, there are some additional fields you want to include.
- Answer Line and Answer Number are used to create the Record Num. column
- Full-Text gives you ChemPort links
- PatentPak Links is for the interactive link
- PatentPak Location is for Hit PPAK



Answer Line	⋮
Answer Number	⋮
Full-Text	⋮
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PatentPak Patent Information	⋮
PatentPak Location	⋮

PatentPak Support

- Coming in Version 5.7.1
- PatentPak Interactive link available as a column or in the summary records link section



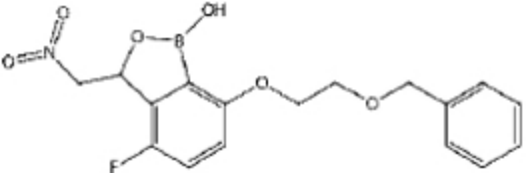
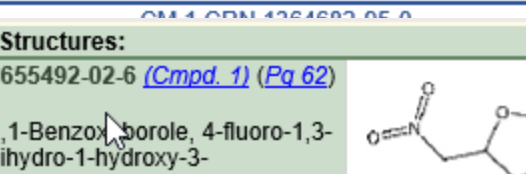
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Hyperlinks:	WO 2012033858 A2	PatDocs Family Tree	PatentPak Interactive	
Notes				

- Hit PatentPak available as a column or in several places in the summary records export

PatentPak Support

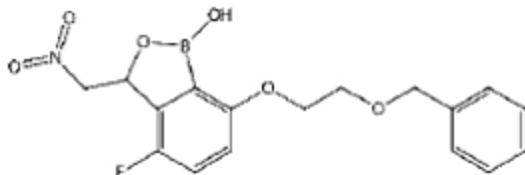
Hit PatentPak		Hit Index Terms PPAK		
RN	Location	RN	Role	Notes
1655492-02-6P	Pg 85	1655492-02-6P (Pg 85)	RL: RCT (Reactant); SPN (Synthetic preparation);	prepn. and anti-mycobacterial

Index of Hit Structures

Substance	Structure	Reference
1 1655492-02-6 2,1-Benzoxaborole, 4-fluoro-1,3-dihydro-1-hydroxy-3-(nitromethyl)-7-[2-(phenylmethoxy)ethoxy]- (CA INDEX NAME)		prepn. and anti-mycobacterial activity of benzoxaborole compds. Reference 1 (Pg 85)
2 1364682-96-1 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)		prepn. and biol. applications of tricyclic benzoxaborole compds. Reference 2 (Pg 62)

Hit Structures:

1655492-02-6 [\(Cmpd. 1\) \(Pg 62\)](#)
2,1-Benzoxaborole, 4-fluoro-1,3-dihydro-1-hydroxy-3-(nitromethyl)-7-[2-(phenylmethoxy)ethoxy]- (CA INDEX NAME)



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

prepn. and biol. applications of tricyclic benzoxaborole compds.

Index Terms:

1655492-02-6P [\(Cmpd. 1\) \(Pg 62\)](#) RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and biol. applications of tricyclic benzoxaborole compds.)

STN Patent Forum

- More details at the STN Patent Forum
- **“Creating More Impactful Reports in STNNext and BizInt Smart Charts”**
- Wednesday, May 4 10:45am

Hit Term Highlights

- Added support for hit term highlights in version 5.6.1
- Only available in the BizInt exports from STNext and Orbit.com
- Appear in the **backing records**
- Appear in record exports
(including claims in summary records exports)
- bizint.com/support/use/hit_highlight.php

Hit Term Highlights

- Smart Charts records

Records: 5f19a5be-71c2-4b48-bc1a-e...

↑ ↓

2: Novel epoxide polyene amphoteric macrolide and process for purifying na

Novel epoxide polyene amphoteric macrolide and process for purifying **natamycin**

Patent Family

Patent	Kind	Date
EP 3837269	A1	2021-06-23
WO 202035553	A1	2020-02-20
US 20210188892	A1	2021-06-24
CN 112585150	A	2021-03-30

- Exports

| Record 2 of 72 | [Publisher Version](#) | [Back to chart](#) |

Novel epoxide polyene amphoteric macrolide and process for purifying **natamycin**

Patent Family

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CN 112585150	A	2021-03-30

Those Little Things

- Word exports - tables in records are more compact
- Color Coding Cells - the color picker could get lost (fixed)
- Summary Records:
 - New option for links to PatDocs Family Tree
 - Fit to margin widths
 - Correct formatting of empty cells

Roadmap for 2022 Development

- Streamlined create, combine, and update workflows
- Continued Reference Rows improvements
- Subtable editing support
- Database Support

Roadmap: Create / Combine chart workflow

- Simplified workflow for creating and combining charts
- Goal is reducing the number of steps to get to your final report
 - Templates
 - Grouping
 - Sorting
- Statistical overview of the combined chart

Roadmap: Reference Rows Changes

- Additional appearance changes
- Cell attribution improvements
- Apply chart templates
- Easier to go back and forth between Reference Rows and BizInt Smart Charts
- Not have to “start from scratch” every time you update

Roadmap: Subtable Editing Support

- Features will apply to publisher and created subtables
- Sorting sub-rows
- Filtering
- Change sub-column selection
- Change sub-column titles, properties
- Edit subtables directly (no more copy/paste to notepad)
- Save user-created subtables in chart templates

Roadmap: Database Support

- PatBase XML enhancements
- Refresh of Derwent Innovation support
- GenomeQuest Discovery Browser annotations
- More consistent support of Independent Claims
- SciFinder-n combined CPlus/Medline records (DONE! 5.6.4)
- STN Image resolution
- MARPAT, Reaxys support on STN

Roadmap for 2022 Development (2)

- Chart Cell improvements
- Export improvements
- Record classification workflow
- Record View improvements



Software for
Business Intelligence

BizInt Smart Charts

Questions?
Requests?



THE JOURNEY CONTINUES