

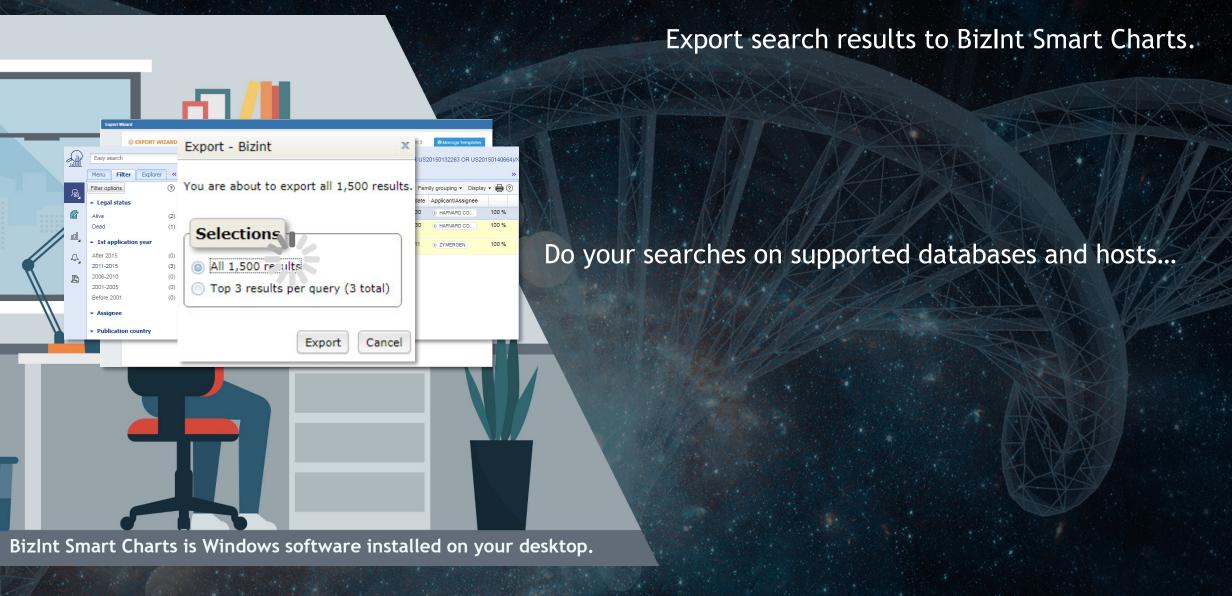
# Creating Biotech Reports with BizInt Smart Charts for Patents

PIUG 2023 Biotechnology Conference Cambridge, Mass 1 March 2023

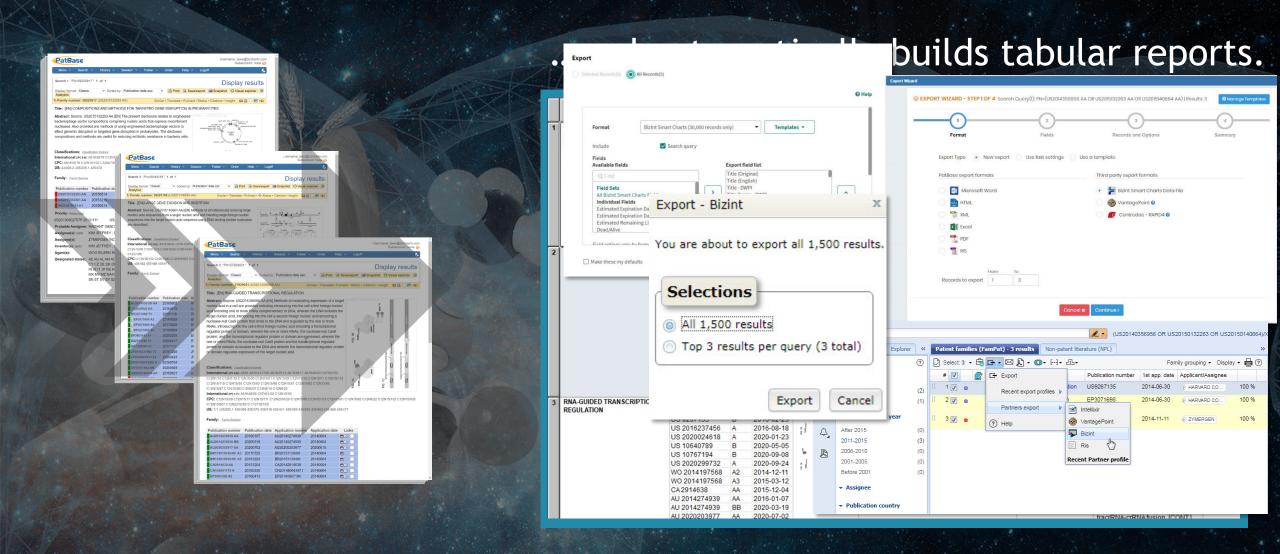
## Agenda

- What we do
- Roadmap
- Exports
- Workflows
- Sources
- Questions and Requests

#### How do I create reports with BizInt Smart Charts?



#### BizInt Smart Charts extracts the key data elements...



#### Combine your results from multiple databases...



	US 20150140664 WO 2015077290	A1 201		HARVARD COLLEGE BYRNE S M	Alteration of a target nu a cell comprises introd	ucleic acid in ducing into	•	Preferred Method: In altering the target nucleic acid in the cell, the	100					
first foreign nucleic acid encoding guide RNA sequences complementary to DNA, and introducing into the cell a second foreign nucleic acid encoding a Cas9 protein	0 WO 2015077290 CA 2930828 AU 2014353100 KR 2016078502 EP 3071698 JP 2016537982 EP 3071698 HK 1229380 EP 3071698 EP 3604543 JP 2020062033 ES 2754498	A3 201 A1 201 A1 201 A 201 A2 201 A	15-08-06 15-05-28 16-06-02 16-07-04 16-09-28 16-12-08 17-06-28 17-11-17 19-09-04 20-02-05 20-04-23 20-04-17 20-09-29	CHURCH G M	the cell a first foreign no encoding one or more sequences compleme DNA, where the DNA in target nucleic acid, introduced acid encoding a Cas9 binds to the DNA and in the one or more guide sequences, introducin cell at third foreign nucleic acid sequence to be in the target nucleic acid (CONT.)	nucleic acid a guide RNA entary to ncludes the roducing into ign nucleic ign nucleic ign protein that is guided by a RNA ag into the deic acid us nucleic ncluded into		exogenous nucleic acid sequence to be included into the target nucleic acid sequence is flanked by sequence scomplementary to the area around the gene replacement. The exogenous nucleic acid is between greater than 100 base pairs and about 100000 base pairs in length. The first nucleic acid sequence of interest is between greater than 100 to base pairs in length (TOO) base pairs in length (TOO) base pairs and about 10000 base pairs in length (TOO).						
New bacteriophage comprises polynucleotide expressing	US 20150353901	A1 201	15-12-10	RADIANT GENOMICS	Abacteriophage comp	prising a Antib presses: (a) Antiir	bacterial; Immunosuppressive; nflammatory: No biological	Preferred Bacteriophage: In the bacteriophage, the prokaryotic hos				Priority Inform	mation	
RNA-directed DNA-binding polypeptide comprising nuclease module, and targeting module					an RNA-directed DNA- polypeptide comprising module; and (b) a target	ng a nuclease	given.	cell is an antibiotic-resistant host cell and the target DNA sequence is within a gene that confers	Number	Patent Assignee	Inventor(s)	Number	Date	Priority Da
comprising guide RNA, for restricting growth of host cell, and for preparing antiseptic composition					module, am (b) a day module comprising a ; where the targeting m the RNA-directed DNA polypeptide to a target sequence within a proi cell, thus producing a double-strand break w target sequence is nev	guide RNA, lodule tethers A-binding t DNA bicaryotic host		resistance to the antibiotic. The prokaryotic host cell is of a species selected from Escherichia coli , Acinetobacter baumannii , Enterococcus faecalis , Enterococcus faecium , Pseudomonas aeruginosa , Staphylococcus aureus , [CONT.]	6959 A1 B2	HARVARD COLLEGE CHURCH G M ESVELT K M MALI P G	CHURCH, George M. MALI, Prashant G. ESVELT, Kevin M.	US2013830787P WO2014US40868A	2013-06-04 2014-06-04	2013-06-04
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	US 9267135	A1 201 B2 201	16-02-23	HARVARD COLLEGE CHURCH G M ESVELT K M MALI P G	Modulating expression nucleic acid in a cell or providing to the cell a g complementary to the t nucleic acid sequence	comprises guide RNA target e including a		Preferred Method: In the method or modulating expression of a target nucleic acid in a cell, the guide RNA including the transcriptional activator or repressor domain as a						
protein, and providing to the cell a nuclease null Cas9 protein	D			ent <sup>™</sup>	transcriptional activato repressor domain as a protein for modulating nucleic acid expressio providing to the cell a n Cas9 protein that inter- guide RNA and binds t nucleic acid sequence specific manner. (CON	a fusion of target on in vivo; and nuclease null racts with the to the target e in a site		fusion protein is provided to the cell by introducing to the cell a nucleic acid encoding the guide RNA including the transcriptional activator or repressor domain as a fusion protein, where the Cas9 protein is pro	B2 6959 A1 9 B2 7456 A1 4 B2	HARVARD COLLEGE	CHURCH GEORGE M MALI PRASHANT G ESVELT KEVIN M	2013US-61830787 2014US-14319289 2014US-14319530 2014WO-US40868 2016US-15049451	2013-06-04 2014-06-30 2014-06-30 2014-06-04 2016-02-22	2013-06-04
	ACtar	ivate A	natytic	a company					4618 A1				The second secon	
nor		Ivate A	, ad year			otional	GOPAT Golds	US 201403 US 202002	4618 A1 56956 A1 99732 A1	HARVARD LINIVERSITY	Church George M	2019US-16441209 2020US-16851360	2019-06-14 2020-04-17	2013-06-04
INSERTION	Patent F W02015077290 M22014253100	Family Kind C	Date	3 RNA-guregulati	ided transcrip	Seq. ID Number w02015077290-000		US 202002 US 926713 US 201403 US 201403  Patent Sequence Location probable disclosure (not found by	4618 A1 556956 A1 99732 A1	HARVARD UNIVERSITY	Church George M. MALI Prashant G. Esvelt Kevin M.	2019US-16441209	2019-06-14	2013-06-04
LARGE GENE EXCISION AND IN SERTION	Patent II  Patent W02015977290 AL2014363100 CA2930828 DK3071698 EP3071698 EP3071698 EP3071699	Family Kind C	Date	3 RNA-guregulati	ided transcription  Inventor(s)  BYRNE SUSAN M CHURCH GEORGE M	Seq. ID Number W02015077290-000	Proteins  Query Pct Identity St 1100.00 136	US 202002 - US 926713 - US 201403 - US 202040 - US 202004 - US 202	4618 A1 156956 A1 199732 A1 15 156956 16959 1956 1959		MALI Prashant G. Esvelt Kevin M.	2019US-16441209 2020US-16851360 US201361830787 US2014040868 US201414319289	2019-06-14 2020-04-17 2013-06-04 2014-06-04 2014-06-30	
TIDE  LARGE CAME EXCISION AND  INSERTION  C  C	Patent V02015977290 AL2014353100 AL2014353100 AL2014353100 CA2930828 DK3071698 EP3071698 EP3074648 EP3074698 UK1020160078502 UK20150140064 UK20150140604	Family Kind 2015	Date   H	3 RNA-gui regulati Patent Assignee ARWARD UNIVERSITY	ided transcription  Investor(s)  ETRINE SUSAN M CHURCH GEORGE M	Seq. ID Number W02015077290-000	Proteins  Query Pct Identity Se	US 202002 US 926711 US 201103 US 201103 US 201103 US 201103 US 201103 Location  Patest Sequence (ordered by automated parsing)  ann  est	4618 A1 156956 A1 199732 A1 15 15 15 15 15 15 15 15 15 1	HARVARD UNIVERSITY  HARVARD COLLEGE; President and Fellows of Harvard College	MALI Prashant G.	2019US-16441209 2020US-16851360 US201361830787 US2014040868	2019-06-14 2020-04-17 2013-06-04 2014-06-04	
Title  LARGE GENE EXCISION AND  INSERTION  CO  REAL qualities of transcriptional regulations	Patent W02015977290 AL2014353190 AL2014353190 AL2014353190 AL2014353190 EP3071698 EP3071698 EP3071698 KP307169078502 KP20160078502 KP20160078502 KP20160078502	Family Kind 2015	Date   H	3 RNA-gui regulati Patent Assignee ARVARD UNIVERSITY	ided transcription  Investor(s)  ETRINE SUSAN M CHURCH GEORGE M	se, ID Number W02015077290-000	omeQue	US 202002 US 926713 US 2011 US	4618 A1 156956 A1 199732 A1 15 156956 6959 956 959 7456 456 4618 6956 6959	HARVARD COLLEGE; President and Fellows	MALI Prashant G. Esvelt Kevin M. Church George M. MALI Prashant G.	2019US-16441209 2020US-16851360 US201361830787 US2014040868 US201414319289 US201361830787 US2014040868	2019-06-14 2020-04-17 2013-06-04 2014-06-04 2014-06-30 2013-06-04 2014-06-04	
Table  LARGE GENE EXCESSION AND INSERTION  REAL quided transcriptional regulation  RNA quided Transcriptional  Regulation	Patent W0201507768  Patent W0201507768  PADENT W0201507768  PP307768  PP307683  PP3076	Family Kind   E   2016	Date H	3 RNA-gui regulati Patent Assignee ARNARO UNIVERSITY  MENARO UNIVERSITY  MENARO COLLEGE	ided transcrip on  Investor(s)	Seq. ID Number W02015077290-000  Geno  US9267135-0001	ouvery Pct Modelity St. apte	US 202002 US 926712 US 201403 US 201403 Patent Sequence 1 Contain  B contained parallel  probable daclosure	4618 A1 156956 A1 199732 A1 15 156956 6959 956 959 7456 4618 6956 6959 956 959 7456 4518 6956 6959 7456 456	HARVARD COLLEGE; President and Fellows	MALI Prashant G. Esvelt Kevin M. Church George M. MALI Prashant G.	2019US-16441209 2020US-16851360 US201361830787 US2014040868 US201414319289 US201414319289 US2014040868 US2014040868 US201414319530 US20130906188P WO2014US66324 EP20140864325 JP20160532531T	2019-06-14 2020-04-17 2013-06-04 2014-06-04 2014-06-30 2013-06-04 2014-06-30 2013-11-19 2014-11-19 2014-11-19 2014-11-19	2013-06-04
Table  LARGAT GENE EXCESSION AND IN SERTION  NISERTON  NISERTON  NISERTON  RNA_guided transcriptional regulation  RNA_Guided Transcriptional Regulation  RNA_Guided Transcriptional Regulation  RNA_Guided Transcriptional Regulation	Patent	2016 2020	Date H	3 RNA-gui regulati Peteri Assipree MRVARO UNIVERSITY  MRVARO UNIVERSITY  MRVARO UNIVERSITY	CHURCH GEORGE M MALI PRASHWIT C GENERAL GEORGE M GENERAL GENERAL GEORGE M GENERAL GENE	Seq. ID Number W02015077290-000  Geno  US9267135-0001	Proteins    Ower Pit Mental   Section   Sectio	US 202002 US 926712 US 201403 US 201403 US 201403 Patent Sequence 1 Control  8 probable dactosure (not found by automated parsing)  probable dactosure (not found by automated parsing)  probable dactosure (not found by automated parsing)	4618 A1 156956 A1 199732 A1 15 15 156956 1956 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1956 1959 1959 1956 1959 1	HARVARD COLLEGE; President and Fellows of Harvard College HARVARD COLLEGE PRESIDENT AND FELLOWS OF	MALI Prashant G. Esvelt Kevin M.  Church George M. MALI Prashant G. Esvelt Kevin M.  BYRNE SUSAN M. CHURCH GEORGE M. GEORGE M. CHURCH GEORGE M.	2019US-16441209 2020US-16851360 US201361830787 US2014040868 US201414319289 US201414319289 US2014040868 US201414319530 US2014040868 US201414319530 US2014086324 EP2014086325 JP20160532531T JP20190230265 US20140319693	2019-06-14 2020-04-17 2013-06-04 2014-06-04 2014-06-30 2013-06-04 2014-06-30 2013-11-19 2014-11-19	2013-06-04

#### Related records are identified automatically...

	Title	Database	Common Formite	Paten	t Family	A	CA-A-	Dataset Assissas
	ride	Database	Common Family	Patent	Kind	Date	State	Patent Assignee
1	New bacteriophage comprises 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	Derwent Innovation + DWPI	WO 2015070193	US 20150353901	A1	2015-12-10		RADIANT GENOMICS INC
2	New bacteriophage comprising polynucleotide that expresses RNA-directed DNA-binding polypeptide and targeting module comprising guide RNA, used e.g. for treating autoimmune and inflammatory disease, and disease caused by bacterial infection	Derwent Innovation + DWPI	WO 2015070193	US 20150132263 WO 2015070193	A1 A1	2015-05-14 2015-05-14		KIM J LIU O RADIANT GENOMICS INC
3	Compositions and methods for targeted gene disruption in prokaryotes	FAMPAT	WO 2015070193	WO 201570193 US 20150132263 US 20150353901	A1 A1 A1	2015-05-14 2015-05-14 2015-12-10	DEAD	ZYMERGEN
4	Compositions and Methods for Targeted Gene Disruption in Prokaryotes	GQPAT Gold+ Proteins	WO 2015070193	US20150353901 US20150132263 WO2015070193		20151210		RADIANT GENOMICS, INC.
5	COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	GQPAT Gold+ Proteins	WO 2015070193	US20150132263 US20150353901 WO2015070193		20150514		RADIANT GENOMICS; RADIANT GENOMICS INC
6	COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	PatBase	WO 2015070193	WO 2015070193 US 2015132263 US 2015353901	A1 A A	2015-05-14 2015-05-14 2015-12-10	DEAD	KIM JEFFREY LIU OLIVER RADIANT GENOMICS INC

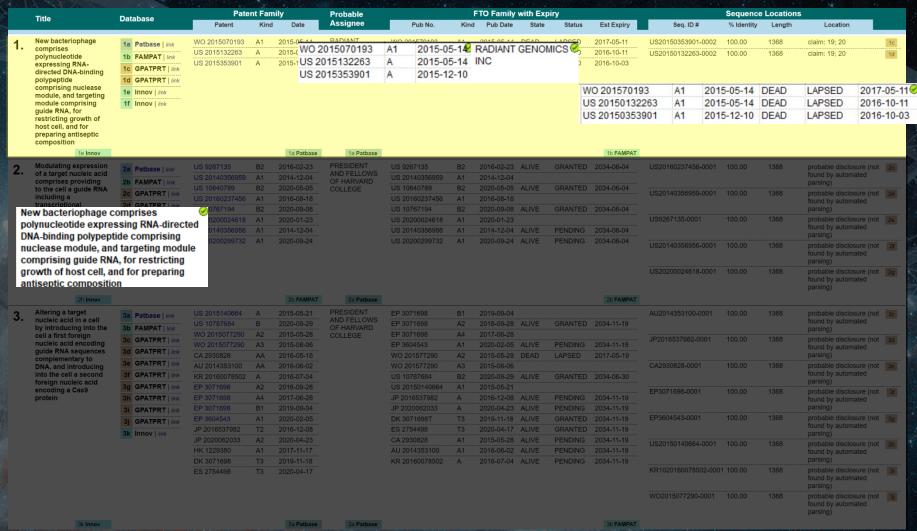
Common
Patent Family
tool assigns a
Common
Family
number
to related
publications.

#### Further integrate your data...

		Paten	t Famil	y				FTO Family wi	ith Expiry				Sequence I	Locations		
Title	Database	Patent	Kind	Date	Probable Assignee	Pub No.	Kind	Pub Date	State	Status	Est Expiry	Seq. ID#	% Identity	Length	Location	
1 COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	PatBase	US 2015132263	A1 A A	2015-05-14 2015-05-14 2015-12-10												
Compositions and methods for targeted gene disruption in prokaryotes	FAMPAT	WO 201570193 US 20150132263 US 20150353901		2015-05-14 2015-05-14 2015-12-10	ZYMERGEN	WO 201570193 US 20150132263 US 20150353901	A1 A1 A1	2015-05-14 2015-05-14 2015-12-10	DEAD	LAPSED LAPSED LAPSED	2017-05-11 2016-10-03					
Compositions and Methods for Targeted Gene Disruption in Prokaryotes	GQPAT Gold+ Proteins	US20150353901 US20150132263 WO2015070193		20151210								US20150353901-0002	100.00	1368	claim: 19; 20	•
1 COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	GQPAT Gold+ Proteins	US20150132263 US20150353901 WO2015070193		20150514								US20150132263-0002	100.00	1368	claim: 19; 20	•
New bacteriophage comprises 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	Derwent Innovation + DWPI	US 20150353901	A1	2015-12-10												
1 New bacteriophage comprising f polynucleotide that expresses RNA-directed DNA-binding polypeptide and targeting module comprising guide RNA, used e.g. for treating autoimmune and inflammatory disease, and disease caused by bacterial infection	+ DWPI	US 20150132263 WO 2015070193														

Use the Reference Rows tool to select key data for each set of related records, based on your rules and selections.

#### And create a single integrated row...



## ...for each family in

			1 V 48		
1	US20150353901-0002	100.00	1368	claim: 19; 20	•
	US20150132263-0002	100.00	1368	claim: 19; 20	•

#### See what is new and changed in updated reports...

7								
	Title		FTO Fa	mily		Patent Assignee	Inventor(s)	Abstract
	Tide	Pub No.	Kind	Pub Date	Status	Patent Assignee	inventor(s)	ADSTRACT
	Methods and compositions for sequences guiding cas9 targeting	W O2015112896 W O2015112896 W O2015112896	A2 A3 A9	2015-07-30 2015-10-29 2015-11-26		NORTH CAROLINA STATE UNIVERSITY	BARRANGOU RODOLPHE SELLE KURT M BRINER ALEXANDRA E	(WO2015112896) The present invention is directed to methods and compositions for genome editing and DNAtargeting of proteins.
	2 Rna modification to engineer cas9 activity	W O2015200555 W O2015200555	A2 A3	2015-12-30 2016-03-10		CARIBOU BIOSCIENCES	MAY ANDREW PAUL DONOHOUE PAUL NYE CHRISTOPHER SLORACH EUAN HAURWITZ RACHEL	(W02015200555) The disclosure provides for compositions, methods and kits, for reducing off-target effects of genome engineering. In one aspect, a composition is provided comprising an engineered nucleoprotein complex [CONT.]
		W 02015161276 W 02015161276	A2 A3	2015-10-22 2015-12-10		EDITAS MEDICINE	WELSTEAD G GRANT FRIEDLAND ARI E MAEDER MORGAN L BUMCROT DAVID A	(WO2015161276) CRISPR/Cas-related composition and methods for treatment of cancer, in particular by using gRNA molecules comprising a targeting domain which is complementary with a target domain which is complementary with a target domain from the FAS, BID, CTLA, PDCD1, CBLB, PTPNS, TRAC or TRBC gens. In some embodiments, gRNAs are used with Cas9 enzymes to cause a cleavage event in said genes within engineered chimeric antigen receptor (CAR) T cells [CONT]
		W O2015157070 W O2015157070	A2 A3	2015-10-15 2015-12-30		EDITAS MEDICINE	REYON DEEPAK MAEDER MORGAN L FRIEDLAND ARI E WELSTEAD G GRANT BUMCROT DAVID A	(WO2015157070) CRISPR/CAS-related compositions and methods for treatment of Cystic Fibrosis (CF).

				FTO Fa	mily			International Patent
	Title	Patent Assignee	Pub No.	Kind	Pub Date	Status	Inventor(s)	Class
1	RNA-guided transcriptional	HARVARD COLLEGE	US 9267135	B2	2016-02-23	GRANTED	CHURCH GEORGE M	C12N-009/22
	regulation		US 20140356959	A1	2014-12-04		MALI PRASHANT G	C12N-015/01
			US 10640789	B2	2020-05-05	GRANTED	ESVELT KEVIN M	C12N-015/10
			US 20160237456	A1	2016-08-18			C12N-015/11
			US 10767194	B2	2020-09-08	GRANTED		C12N-015/113
			US 20200024618	A1	2020-01-23			C12N-015/115
			US 20140356956	A1	2014-12-04	PENDING		C12N-015/63 C12N-015/66
			US 20200299732	A1	2020-09-24	PENDING		C12N-015/66 C12N-015/85
								C12N-015/85 C12N-015/87
								C12N-015/90
2	Dna writers, molecular recorders	MIT.	WO 2018152197	A1	2018-08-23	LAPSED	FARZADFARD FAHIM	C12N-009/22
2	and uses thereof	MASSACHUSETTS	US 20200063127	A1	2020-02-27		LU TIMOTHY	C12N-009/78
	and uses thereof	INSTITUTE OF	03 20200003127	AI	2020-02-21	FEINDING	LOTIMOTHI	C12N-015/11
		TECHNOLOGY						C12N-015/62
		US NAVY						C12N-015/63
								C12N-015/85
3	Method for producing	NATIONAL	WO 2018151155	A1	2018-08-23	LAPSED	ISHIBASHI Kazuhiro	A01H-001/00
	genome-edited plants using plant		US 20190359993	A1	2019-11-28	PENDING	ARIGA Hirotaka	C12N-005/10
	virus vectors	FOOD RESEARCH	JP 2018151155W	A1	2019-12-12	PENDING	TOKI Seiichi	C12N-005/14
		ORGANIZATION					KAYA Hidetaka	C12N-015/09
				-				C12N-015/82
4	Large gene excision and insertion	HARVARD COLLEGE	EP 3071698	B1	2019-09-04		BYRNE SUSAN M	A61K-038/43
			EP 3071698	A2	2016-09-28	GRANTED	CHURCH GEORGE M	C07H-021/02
			EP 3071698	A4	2017-06-28			C07H-021/04 C12N-009/14
			EP 3604543	A1	2020-02-05			C12N-009/14 C12N-009/22
			WO 201577290	A2	2015-05-28	LAPSED		C12N-009/52
			WO 201577290	A3	2015-08-06			C12N-015/00
			US 10787684	B2	2020-09-29	GRANTED		C12N-015/09
			US 20150140664	A1	2015-05-21			C12N-015/10
			JP 2016537982	Α	2016-12-08			C12N-015/63
			JP 2020062033	Α	2020-04-23			C12N-015/64
			DK 3071698T	T3	2019-11-18			C12N-015/90
			ES 2754498	T3	2020-04-17			C12Q-001/68
			CA 2930828	A1	2015-05-28			
			AU 2014353100	A1	2016-06-02			
			KR 20160078502	A	2016-07-04	PENDING		

Update your existing report...

New records and changes in updated records are highlighted.

	Title	Dow Status	Datent Assigns -		FTO Fa	amily		Inventor(e)	Now Dublications
	Title	Row Status	Patent Assignee	Pub No.	Kind	Pub Date	Status	Inventor(s)	New Publications
1	Method for producing	Added	NATIONAL AGRICULTURE &	WO 2018151155	A1	2018-08-23	LAPSED	ISHIBASHI Kazuhiro	WO 2018151155 A
	genome-edited plants using plant		FOOD RESEARCH	US 20190359993	A1	2019-11-28	PENDING	ARIGA Hirotaka	US 20190359993 A
	virus vectors		ORGANIZATION	JP 2018151155W	A1	2019-12-12		TOKI Seiichi KAYA Hidetaka	JP 2018151155
2	Dna writers, molecular recorders	Added	MIT - MASSACHUSETTS	WO 2018152197	A1	2018-08-23	LAPSED	FARZADFARD FAHIM	WO 2018152197 A
	and uses thereof		INSTITUTE OF TECHNOLOGY US NAVY	US 20200063127	A1	2020-02-27	PENDING	LU TIMOTHY	US 20200063127
3	RNA-guided transcriptional	Added	HARVARD COLLEGE	US 9267135	B2	2016-02-23	GRANTED	CHURCH GEORGE M	US 9267135 B2
	regulation			US 20140356959	A1	2014-12-04		MALI PRASHANT G	US 20140356959 A
				US 10640789	B2	2020-05-05	GRANTED	ESVELT KEVIN M	US 10640789 B2
				US 20160237456	A1	2016-08-18			US 201602374567
				US 10767194	B2	2020-09-08	GRANTED		US 10767194 B2
				US 20200024618	A1	2020-01-23			US 20200024618
				US 20140356956	A1	2014-12-04	PENDING		US 20140356956
				US 20200299732	A1	2020-09-24	PENDING		US 20200299732
4	Compositions and methods for	Updated	ZYMERGEN	WO 201570193	A1	2015-05-14	LAPSED	LIU OLIVER	
	targeted gene disruption in			US 20150132263	A1	2015-05-14	LAPSED	KIM JEFFREY	
	prokaryotes			US 20150353901	A1	2015-12-10	LAPSED		
5	Large gene excision and insertion	Updated	HARVARD COLLEGE	EP 3071698	B1	2019-09-04		BYRNE SUSAN M	EP 3071698 B1
				EP 3071698	A2	2016-09-28	GRANTED	CHURCH GEORGE M	EP 3071698 A2
				EP 3071698	A4	2017-06-28			EP 3071698 A4
				EP 3604543	A1	2020-02-05			EP 3604543 A1
				WO 201577290	A2	2015-05-28	LAPSED		US 10787684 B2
				WO 201577290	A3	2015-08-06			JP 2016537982 A
				US 10787684	B2	2020-09-29	GRANTED		JP 2020062033 A DK 3071698
				US 20150140664	A1	2015-05-21			ES 2754498
				JP 2016537982	Α	2016-12-08			CA 2930828 A1
				JP 2020062033	Α	2020-04-23			AU 2014353100 A1
				DK 3071698T	T3	2019-11-18			KR 20160078502
				ES 2754498	T3	2020-04-17			
				CA 2930828	A1	2015-05-28	PENDING		
				AU 2014353100	A1	2016-06-02	PENDING		
				KR 20160078502	Α	2016-07-04	PENDING		

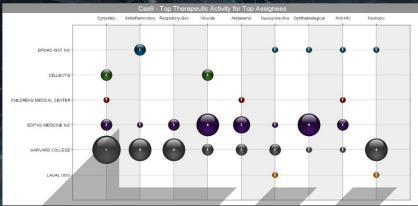
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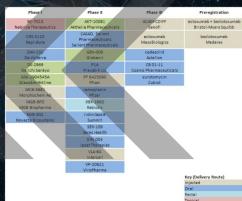


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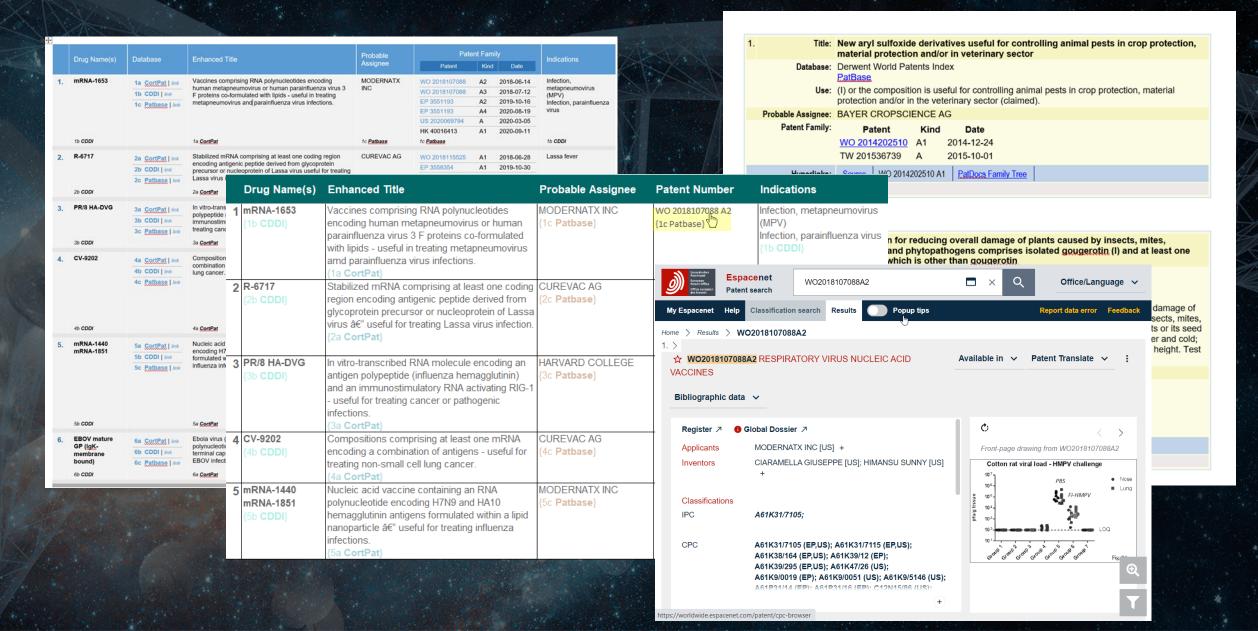








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#### We make tables



## Highlights of What's New

- Reload of sequence databases on STNext
- Virtual databases on GenomeQuest
- Fixed bunches of bugs in Word exports
- Quick open for statistics and exports
- Reference Rows preview button
- Delete user-added columns
- Hide multiple columns at once
- New content in Pharmaprojects and Trialtrove

#### Roadmap for First Half 2023

- Export improvements (esp Word and HTML)
- Streamlined create, combine, and update workflows
- Database Support
  - PatBase XML enhancements (including hit highlights)
  - Add support for PatSnap
  - ✓ Citeline enhancements
  - Adis enhancements

#### Roadmap for Second Half 2023

- Subtable editing support
- Links, highlights, and multi-byte characters in both chart cells and records
- STN Chemistry: MARPAT, Reaxys, DCR, image quality
- Permanently delete hidden rows
- Continuing export improvements (Excel)

#### Things down the road...

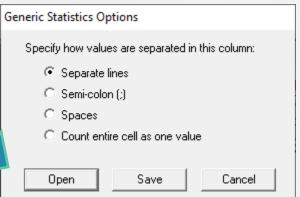
- Record classification workflow
- Custom records
- Database Support
  - Refresh of Derwent Innovation support
  - More consistent support of Independent Claims

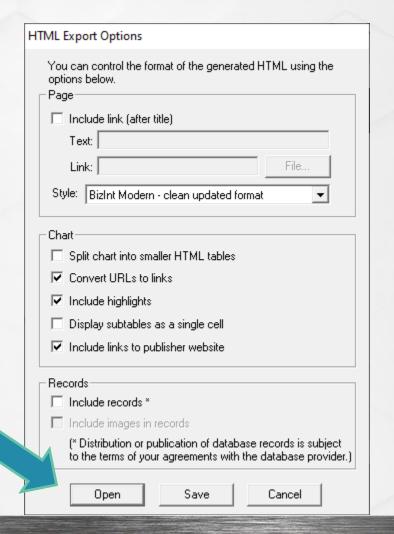
#### Export and Statistics Workflow Improvements

 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





#### Export changes

- Fixing a LOT of glitches in export to Word
- Choice of stylesheet for almost every export type
- Easily customized presentation (colors, fonts, etc)
- Less obtrusive source attribution in Reference Rows

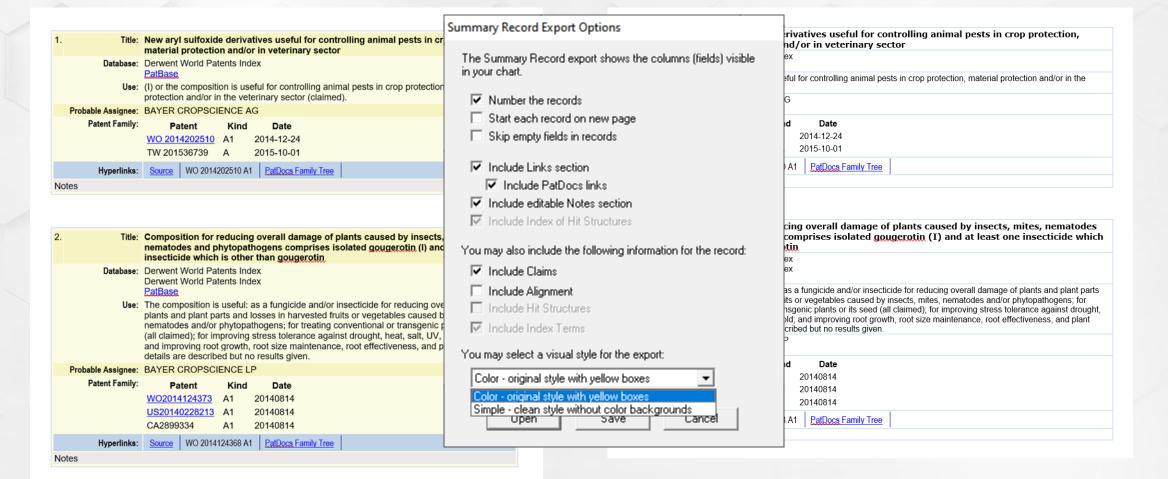
- Working on enhanced table of contents headings, internal links
- Trying to find better formatting for alignments in Excel

#### Clean up styles for Word exports

	Drug Name(s)	Database	Enhanced Title	Probable	Pate	ent Fam	nily	Indications	
	Drug Name(s)	Database	Limanced Title	Assignee	Patent	Kind	i Date	mulcations	
1.	mRNA-1653	1a CortPat   link	Vaccines comprising RNA polynucleotides encoding	MODERNATX	WO 2018107088	A2	2018-06-14	Infection,	
		1b CDDI   link	human metapneumovirus or human parainfluenza virus 3 F proteins co-formulated with lipids - useful in treating	INC	WO 2018107088	A3	2018-07-12	metapneumovirus (MPV)	
		1c Patbase   link	metapneumovirus and parainfluenza virus infections.		EP 3551193	A2	2019-10-16	Infection, parainfluenza	
					EP 3551193	A4	2020-08-19	virus	
					US 2020069794	Α	2020-03-05		
					HK 40016413	A1	2020-09-11		
	1b CDDI		1a CortPat	1c Pathase	1c Pathase			1b CDDI	
2.	R-6717	2a CortPat   link	Stabilized mRNA comprising at least one coding region	CUREVAC AG	WO 2018115525	A1	2018-06-28	Lassa fever	
		2b CDDI   link	encoding antigenic peptide derived from glycoprotein		EP 3558354	A1	2019-10-30		
			precursor or nucleoprotein of Lassa virus useful for treating Lassa virus infection.		US 2019351044	Α	2019-11-21		
	2b CDDI	2c Patbase   link		2- Bethan	2- <b>B</b> -#			2b CDDI	
	20 <b>CDDI</b>		2a ContPat	2c Pathase	2c Pathase			26 CDDI	
3.	PR/8 HA-DVG	3a CortPat   link	In vitro-transcribed RNA molecule encoding an antigen polypeptide (influenza hemagglutinin) and an	HARVARD COLLEGE	US 2019184006	Α	2019-06-20	Allergy Cancer	
		3b CDDI   link	immunostimulatory RNA activating RIG-1 - useful for	COLLEGE	US 10736957	В	2020-08-11	Infection, respiratory	
		3c Patbase   link	treating cancer or pathogenic infections.		WO 2019126334	A1	2019-06-27	(lung)	
	3b CDDI		3a CortPat	3c Pathase	3c Pathase			3b CDDI	
ı	CV-9202	4a CortPat   link	Compositions comprising at least one mRNA encoding a	CUREVAC AG	WO 2015024666		2015-02-26	Cancer	
			combination of antigens - useful for treating non-small cell		KR 2016042935		2016-04-20	Cancer, lung (non-	
		4b CDDI   link	lung cancer.		CN 105530952		2016-04-27	small cell) (NSCLC)	
		4c Patbase   link			EP 3574916		2019-12-04		
					US 2016168227		2016-06-16		
					EP 3035955		2016-06-29		
					JP 2016528264		2016-09-15		
	4b CDDI		4a CortPat	4c Pathase	4b CDDI			4b CDDI	
j.	mRNA-1440	5a CortPat   link	Nucleic acid vaccine containing an RNA polynucleotide	MODERNATX	WO 2018089851	A2	2018-05-17	Influenza A	
	mRNA-1851		encoding H7N9 and HA10 hemagglutinin antigens	INC	WO 2018089851	A3	2018-06-21		
		5b CDDI   link	formulated within a lipid nanoparticle useful for treating influenza infections.		CN 110167587	A	2019-08-23		
		5c Patbase   link	illideliza illections.		EP 3538146	A2	2019-09-18		
					EP 3538146	A4	2020-07-15		
					US 2019336595	Α	2019-11-07		
					US 10925958	В	2021-02-23		
					HK 40013322	A1	2020-08-07		
	5b CDDI		5a CortPat	5c Pathase	5c Pathase			5b CDDI	
6.	EBOV mature GP (IgK- membrane bound)	6a CortPat   link 6b CDDI   link 6c Pathase   link	Ebola virus (EBOV) vaccine comprising an RNA polynucleotide encoding EBOV antigenic polypeptides, a 5' terminal cap and a chemical modification useful for treating EBOV infections.	MODERNATX INC	WO 2017015457	A1	2017-01-26	Ebola virus disease	
	6b CDDI		6a CortPat	6c Pathase	6c Pathase			6b CDDI	

- Offer similar styles in Smart Charts and Reference Rows
- Cleaner attributions in Reference Rows
- Better row shading and cell highlights
- Easier to customize

#### Allow styles for summary records



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#### Workflows

- Clean up processes in BizInt Smart Charts
- Remove unnecessary steps
- Fix bugs
- Platform for new features

· Make the software easier to learn, faster to use

#### Workflow improvements in

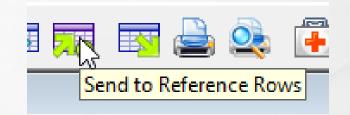
- Reference Rows
- Exporting
- Creating / Combining / Updating
- Navigating open charts

#### Reference Rows Workflow Improvements

- No wizard (go directly to the selection view)
- Chart does not need to be saved

Combined: MCC Combined - March 2021

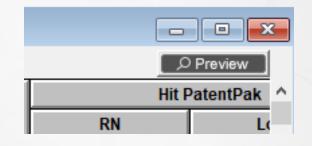
Chart can come from a single database



	•	miblied. Mcc col	mbinea - 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 <sup>™</sup>	L03AX Other immunostimulant	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 Ontravenous Intravesical Parenteral Subcutaneous	2021-03-25 🤣
100	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 002	ALT 002	Citalina	Alter Die Coienes	Dhoop 2	Funion protoin	laiostoble	2020 42 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	Inventor(s)	Patent Assignee	н	it PatentPak	
	mic	Common running	Number	mvemor(3)	r dtellt Assignee	RN	Location	L
•	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	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	
8	2 CA		2 CA	2 CA	2 CA		2 CA	

#### Reference Rows Appearance Changes

Combined: MCC Combined - March 2021

ALT OOG

**Citation** 

New Selection Glyphs		Drug Name	Common Drug Name	Database	Develope
	1	ADUS-100	ADUS-100	GlobalData Drugs	Chinook Thera Inc
Singleton rows have simple row numbers	2	ALRN-6924 &	ALRN-6924 🕝	GlobalData Drugs	Aileron Therape
Simple Tow Hambers	3 a		ALT 803	GlobalData Drugs	Altor Bioscience
Source rows now have a letter instead of a decimal number	3 b	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALT 803	Adis R&D Insight	Altor BioScienc Corporation (Or NantKwest (Ori

ALT 002

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Alter Die Ceiene

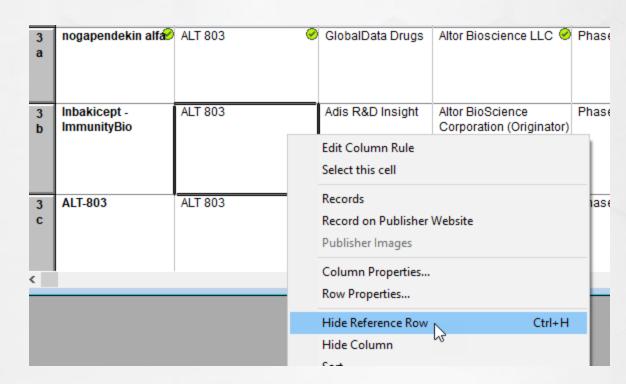
#### Hide Reference Rows

The #1 most requested feature in BizInt Smart Charts is now

here! Hide Reference Row

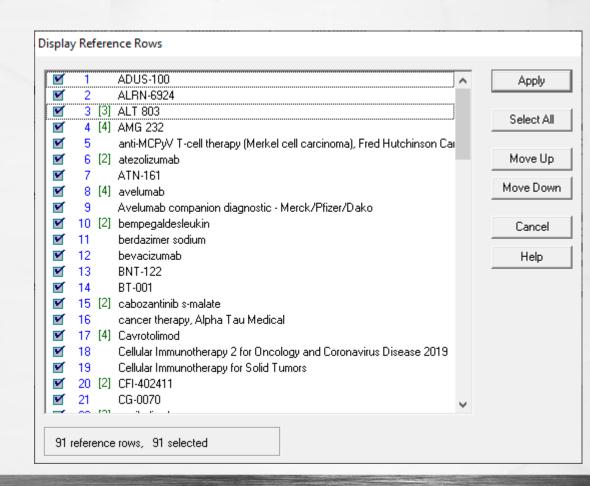
 Right click on any component row in a Reference Row to hide the entire group.

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.



#### **BizInt Smart Charts**

for Patents

#### **Patent Databases**

Provide data on patents filed worldwide

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



#### Database Changes (STN)

Added support for PSPI in CAplus and MARPAT

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

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

#### **BizInt Smart Charts**

for Patents

## **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



#### Recent Database Changes

- Support for Virtual Databases on GenomeQuest Including full text search results
- 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

#### **Clinical Trials Databases**

Provide data on drug trials worldwide

#### Commercial:

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

#### Public registries:

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

#### **BizInt Smart Charts**

Drug Development Suite



## **Drug Pipeline Databases**

Provide data on drugs in development worldwide

**BizInt Smart Charts** 

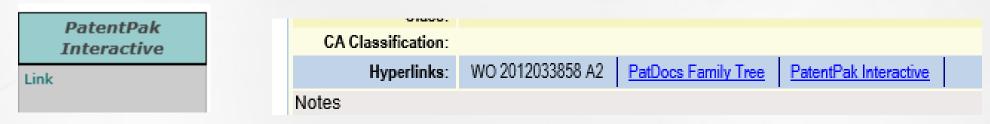
Drug Development Suite

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



#### PatentPak Support

- Introduced in Version 5.7.1
   BizInt export only
- PatentPak Interactive link available as a column or in the summary records link section



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

#### PatentPak Support

Pg 62

Hit PatentPak		Hit Index Terms PPAK			
RN	Lo	cation	RN	Role	Notes
1655492-02-6P Pg 85			1655492-02-6P (Pg 85)	RL: RCT (Reactant); SPN (Synthetic preparation);	

#### Index of Hit Structures

ı		
	1364682-96-1P	Pg 67
	1364683-03-3P	Pg 71
	1364684-69-4P	Pg 70
	1364684-75-2P	Pg 73

1655492-02-6P

	Substance	Structure	Reference
	1655492-02-6  2,1-Benzoxaborole, 4-fluoro-1,3-dihydro-1-hydroxy-3-(nitromethyl)-7-[2-(phenylmethoxy)ethoxy]- (CA INDEX NAME)	OSEN OH	prepn. and anti- mycobacterial activity of benzoxaborole compds. Reference 1 (Pq 85) prepn. and biol. applications of tricyclic
			benzoxaborole compds. <u>Reference 2 (Pq 62)</u>
2	4364602 06 4	OM 4 ODN 4364603 OF 0	propp of

#### 2 1364682-96-1

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

#### Hit Structures:

1655492-02-6 (Cmpd. 1) (Pq 62)

2,1-Benzox borole, 4-fluoro-1,3dihydro-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) (Pq 62) RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and biol. applications of tricyclic benzoxaborole compds.)

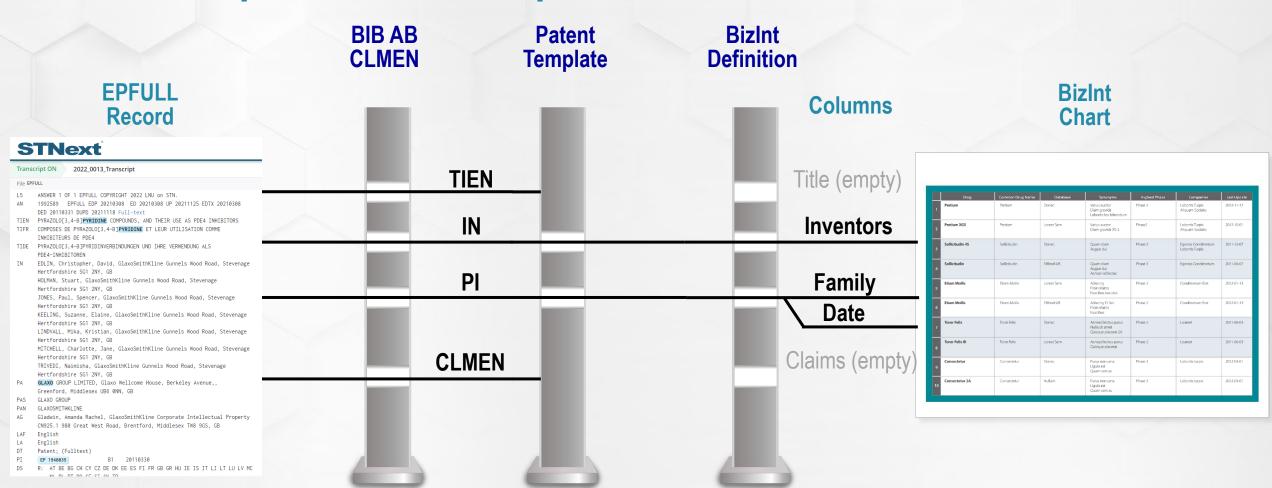
#### STNext BizInt Export

- 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

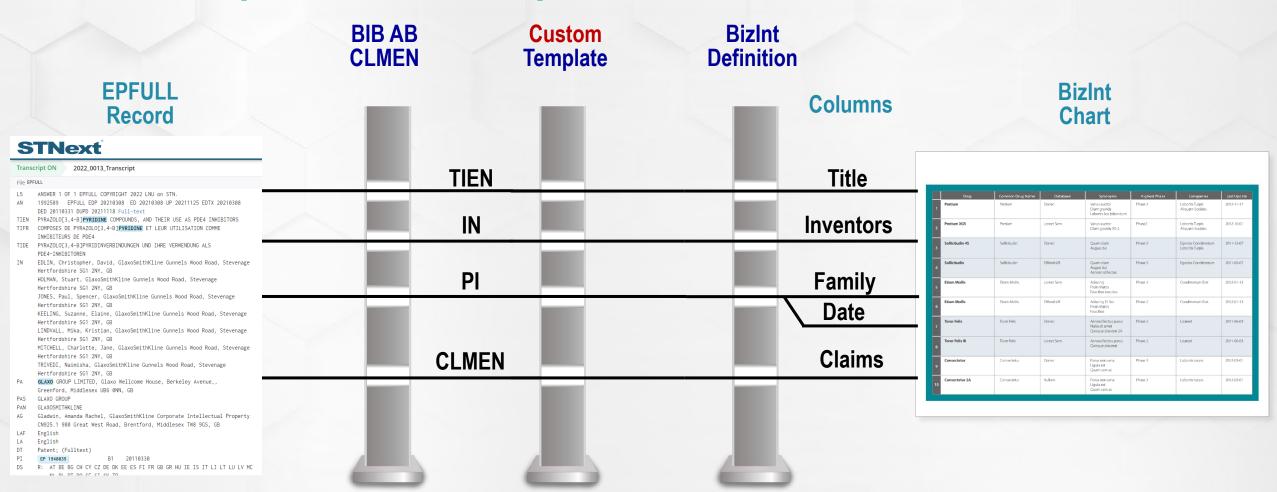
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#### STNext Reports and Templates



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#### STNext Reports and Templates



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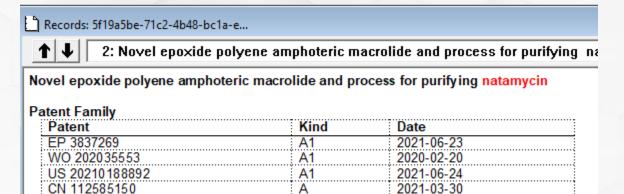
#### Hit Term Highlights

- 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)
- PatBase support coming soon

bizint.com/support/use/hit\_highlight.php

#### Hit Term Highlights

Smart Charts records



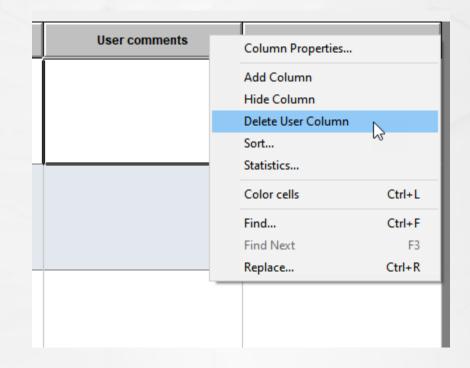
Exports

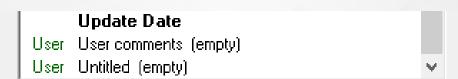
2021-03-30

CN 112585150

#### Delete user-added columns

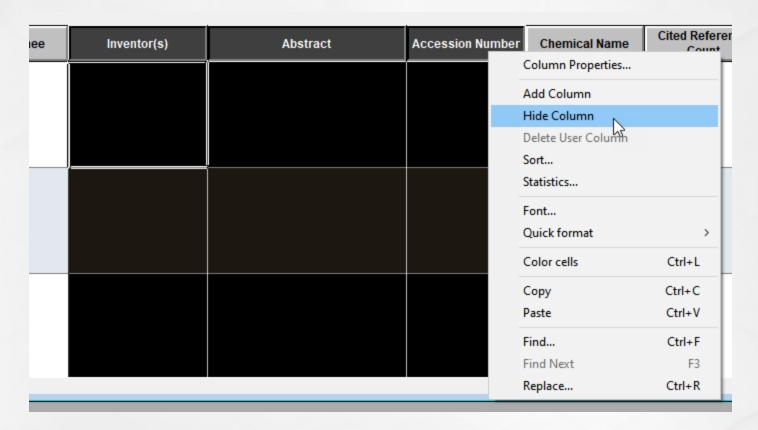
- Delete User Columns command
- Remove user-added and VP-SCE columns
- Can select multiple columns
   (don't worry you can't accidentally delete publisher fields)





#### Hide Multiple Columns

- Select one or more columns
- View | Hide Column



#### **Color Coding Cells**

Software for Business Intelligence

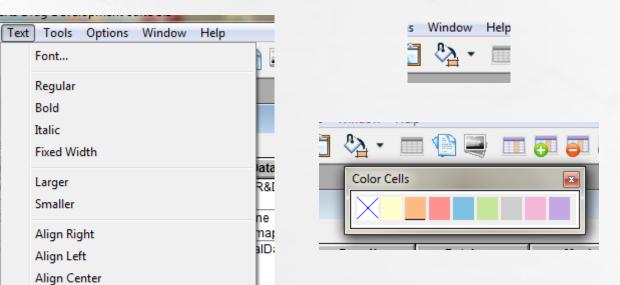
BizInt Smart Charts

 Choice of eight colors for color coding added in Version 5.5

Color cell

Color row

Clear cell colors
Clear all cell colors
Show color chooser



Ctrl+L

