



Software for
Business Intelligence

BizInt Smart Charts



Using Integrated Search Results for Reports and Visualizations

John Willmore, VP Product Development

2025 PIUG Annual Meeting

May 2025

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Today's Topics

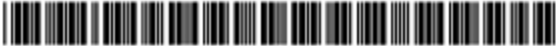
- A Taxonomy of Integration Methods
- Workflow Changes
- Database Changes

A single result

That recent patent from Vertex on CFI

US 20250011379 A1
2025-01-09

COMPLEMENT FACTOR I-RELATED
COMPOSITIONS AND METHODS


US 20250011379A1

(19) **United States**

(12) **Patent Application Publication**

BLOUSE et al.

(10) **Pub. No.: US 2025/0011379 A1**

(43) **Pub. Date: Jan. 9, 2025**

(54) **COMPLEMENT FACTOR I-RELATED COMPOSITIONS AND METHODS**

(71) Applicant: **Vertex Pharmaceuticals Incorporated,**
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(21) Appl. No.: **18/750,921**

(22) Filed: **Jun. 21, 2024**

Related U.S. Application Data

(63) Continuation of application No. PCT/US2022/082177, filed on Dec. 21, 2022.

(60) Provisional application No. 63/293,040, filed on Dec. 22, 2021.

Publication Classification

(51) **Int. Cl.**
C07K 14/47 (2006.01)
A61K 47/60 (2006.01)
A61P 37/06 (2006.01)
C07K 14/76 (2006.01)

(52) **U.S. CL**
CPC *C07K 14/4703* (2013.01); *A61K 47/60* (2017.08); *A61P 37/06* (2018.01); *C07K 14/76* (2013.01); *C07K 2319/30* (2013.01)

(57) **ABSTRACT**
Provided herein are Complement Factor I (CFI) variants and CFI containing fusion constructs that exhibit at least one improved characteristic relative to a wild type CFI. The CFI variants and fusion constructs of the disclosure can exhibit tunable specificity and activity. The CFI variants and fusion constructs provided herein may be useful for treating a disease or condition associated with dysregulation of the complement system or a deficiency of CFI.
Specification includes a Sequence Listing.

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3

A simple result set

- Complement factor-I by Vertex

FAMPAT: orbit-vertex-cfi					
	Title	US Patent Number	Patent Assignee	Patent Number	Patent Date
1	Complement factor-i formulations		VERTEX PHARMACEUTICALS	JP 2025503483 A	2025-02-04
2	Complement factor i-related compositions and methods		VERTEX PHARMACEUTICALS	JP 2025501749 A	2025-01-23
3	Complement factor I-related compositions and methods	US 12116606 B2 US 20230038638 A1	CATALYST BIOSCIENCES MOSAIC BIOSCIENCES U S BUSINESS MEDIA CONTROL BIOCHEMICAL TECHNOLOGY VERTEX PHARMACEUTICALS	US 12116606 B2	2024-10-15
4	Complement factor i dosing regimens for treating ocular diseases		VERTEX PHARMACEUTICALS	KR 20250008764 A	2025-01-15
5	Complement factor-i formulations	US 20250009855 A1	VERTEX PHARMACEUTICALS	US 20250009855 A1	2025-01-09
6	Complement factor i-related compositions and methods	US 20250011379 A1	VERTEX PHARMACEUTICALS	US 20250011379 A1	2025-01-09



This could quickly get tricky

- This was a simple text search...
- What if we look at synonyms, sequences, rich indexing?
- A more expansive view of ownership?
- Or what if we start with a CI resource like a drug pipeline database and retrieve related patents?

Simple Integration

- Search on a variety of platforms
- Transfer PN lists to another platform
- Present that combined list to your client
- Pros: easy; client can drill down to details
- Con: lose context of how you found the results; what if you don't find a PN on the platform?

Simple but sometimes not easy

- Structure search on STN
- Somehow find Derwent document numbers?
- Present users with data from in-house DerPict server



Simple and Very Easy

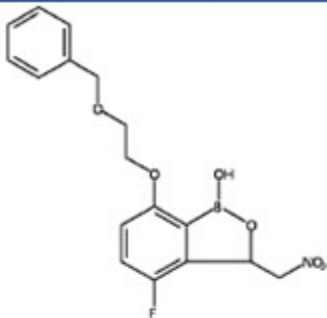
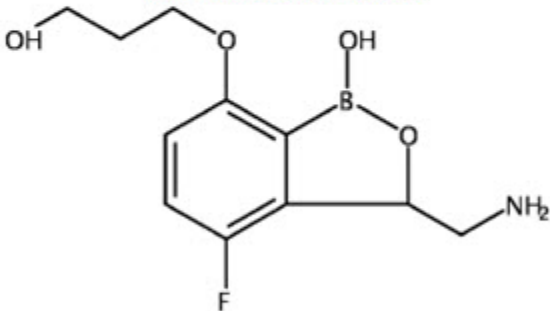
- In some cases you might be able to do several types of search on a single platform
- Orbit + Orbit Biosequences
- PatBase + Chemical Explorer
- Patsnap Analytics + Patsnap Bio
- STN (except for end-user access)

Simple - Plus

- You can enhance this simple report with search specifics in a number of ways
- For example, add an index of chemical structures (Hit Structures) linked to families from Orbit
- Or add links to your preferred platform (add links to Patbase to your GenomeQuest results)

Simple - Plus

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]-</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)</p>	<p>CM1 CRN 1364682-95-0</p>  <p>CM2 CRN 76-05-1</p>	<p>prepn. of benzoxaborole derivs. useful for treating bacterial infections Reference 3</p>



Simple - Plus

- Or adding a summary of sequence hits from GenomeQuest to each family from PatBase

1.	Title: <u>SiRNA targeting AGT gene expression and conjugate and use thereof</u>		
	Database: PatBase PatSnap Analytics GQPAT Gold+ Nucleotides GQPAT Gold+ Nucleotides GQPAT Gold+ Nucleotides		
	Patent Family:	Patent	Kind Date
		WO 2024227458	A2 2024-11-07
		WO 2024227458	A3 2025-01-09
	Current Patent Assignee:	LEADERNA THERAPEUTICS LTD	
	Sequence Summary:	Seq. ID	% Identity Location
		WO2024227458-0252	95.65 claim: 1; 3
		WO2024227458-0348	100.00 probable disclosure (not found by automated parsing)
		WO2024227458-0253	95.65 claim: 1; 3
	Priority Date:	2023-08-22	
	Abstract:	Source: WO24227458A2; Provided in the present invention are an siRNA that inhibits AGT gene expression and a conjugate thereof. The siRNA contains a sense strand and an anti-sense strand. The siRNA, siRNA conjugate and pharmaceutical composition provided in the present invention have good stability, an excellent inhibitory activity against the AGT gene, and satisfactory cytotoxicity and immunostimulatory [CONT.]	

Simple - Plus

- Or we could add PatentPak information to each Orbit family, showing the location of structures in the patent publication
- BizInt matches records related to the same family
- Integrating unique content into a single row

When Simple Fails

- This technique works for patents and clinical trials as long as you can find the underlying document
- When doing pharma competitive intelligence in drug pipeline databases this falls flat
- Indexing differences – the search concept might not be present in the preferred source
- BizInt.com/surfing



Fully Integrated

- Use results from multiple sources
- Selecting source contents field by field
- Selection rules based on uniqueness, field content, preference for a particular source, or user review.

Further integrate your data...

	Title	Database	Patent Family			Probable Assignee	FTO Family with Expiry						Sequence Locations			
			Patent	Kind	Date		Pub No.	Kind	Pub Date	State	Status	Est Expiry	Seq. ID #	% Identity	Length	Location
1 a	COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	PatBase	WO 2015070193 US 2015132263 US 2015353901	A1 A A	2015-05-14 2015-05-14 2015-12-10	RADIANT GENOMICS INC										
1 b	Compositions and methods for targeted gene disruption in prokaryotes	FAMPAT	WO 2015070193 US 20150132263 US 20150353901	A1 A1 A1	2015-05-14 2015-05-14 2015-12-10	ZYMERGEN	WO 2015070193 US 20150132263 US 20150353901	A1 A1 A1	2015-05-14 2015-05-14 2015-12-10	DEAD DEAD DEAD	LAPSED LAPSED LAPSED	2017-05-11 2016-10-11 2016-10-03				
1 c	COMPOSITIONS AND METHODS FOR TARGETED GENE DISRUPTION IN PROKARYOTES	GQPAT Gold+ Proteins	US20150132263 US20150353901 WO2015070193		20150514								US20150132263-0002	100.00	1368	claim: 19; 20
1 d	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 e	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 f	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	US 20150132263 WO 2015070193	A1 A1	2015-05-14 2015-05-14											

Use the Smart Data Integrator to select key data for each set of related records, based on your rules and selections.

And create a single integrated row...

	Title	Database	Patent Family			Probable Assignee	FTO Family with Expiry				Sequence Locations							
			Patent	Kind	Date		Pub No.	Kind	Pub Date	State	Status	Est Expiry	Seq. ID #	% Identity	Length	Location		
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	1a Patbase link	WO 2015070193	A	2015-05-14	RADIANT GENOMICS INC				DEAD	LAPSED	2017-05-11	US20150132263-0002	100.00	1368	claim: 19; 20	1c	
		1b FAM link	US 2015132263	A	2015-05-14					DEAD	LAPSED	2016-10-11	US20150353901-0002	100.00	1368	claim: 19; 20	1d	
		1c GQP link	US 2015353901	A	2015-12-10					DEAD	LAPSED	2016-10-03	US20150353901-0003	100.00	1368	claim: 19; 20	1d	
		1d GQP link								WO 201570193	A1	2015-05-14	DEAD	LAPSED	2017-05-11			
		1e Innov link								US 20150132263	A1	2015-05-14	DEAD	LAPSED	2016-10-11			
		1f Innov link								US 20150353901	A1	2015-12-10	DEAD	LAPSED	2016-10-03			
			1e Innov		1a Patbase					1a Patbase		1b FAM						
2	RNA-GUIDED TRANSCRIPTIONAL REGULATION 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	2 Patbase link	US 9267135	B2	2016-02-23	PRESIDENT AND FELLOWS OF HARVARD COLLEGE	US 9267135	B2	2016-02-23	ALIVE	GRANTED	2034-06-04	US20140356959-0001	100.00	1368	probable disclosure (not found by automated parsing)	2	
		2 FAM link	US 20140356959	A1	2014-12-04		US 20140356959	A1	2014-12-04									
		2 GQP link	US 10640789	B2	2020-05-05		US 10640789	B2	2020-05-05	ALIVE	GRANTED	2034-06-04						
			US 20160237456	A1	2016-08-18		US 20160237456	A1	2016-08-18									
			US 10767194	B2	2020-09-08		US 10767194	B2	2020-09-08	ALIVE	GRANTED	2034-06-04	US9267135-0001	100.00	1368	probable disclosure (not found by automated parsing)	2	
			US 20200024618	A1	2020-01-23		US 20200024618	A1	2020-01-23									
			US 20140356956	A1	2014-12-04		US 20140356956	A1	2014-12-04	ALIVE	PENDING	2034-06-04						
			US 20200299732	A1	2020-09-24		US 20200299732	A1	2020-09-24	ALIVE	PENDING	2034-06-04						
													US20200024618-0001	100.00	1368	probable disclosure (not found by automated parsing)	2	
													US20160237456-0001	100.00	1368	probable disclosure (not found by automated parsing)	2	
													US20140356956-0001	100.00	1368	probable disclosure (not found by automated parsing)	2	
	2 Patbase		2 FAM	2 Patbase		2 FAM												
3	LARGE GENE EXCISION AND INSERTION	3a Patbase link	US 20150140664	A1	2015-05-21	PRESIDENT AND FELLOWS OF HARVARD COLLEGE	EP 3071698	B1	2019-09-04				JP2016537982-0001	100.00	1368	probable disclosure (not found by automated parsing)	3c	
		3b FAM link	WO 2015077290	A2	2015-05-28		EP 3071698	A2	2016-09-28	ALIVE	GRANTED	2034-11-19						
		3c GQP link	WO 2015077290	A3	2015-08-06		EP 3071698	A4	2017-06-28									
		3d GQP link	CA 2930828	A1	2015-05-28		EP 3604543	A1	2020-02-05	ALIVE	PENDING	2034-11-19						
		3e GQP link	AU 2014353100	A1	2016-06-02		WO 201577290	A2	2015-05-28	DEAD	LAPSED	2017-05-19	US20150140664-0001	100.00	1368	probable disclosure (not found by automated parsing)	3d	
		3f GQP link	KR 2016078502	A	2016-07-04		WO 201577290	A3	2015-08-06									
		3g GQP link	EP 3071698	A2	2016-09-28		US 10787684	B2	2020-09-29	ALIVE	GRANTED	2034-06-30						
		3h GQP link	JP 2016537982	A	2016-12-08		US 20150140664	A1	2015-05-21									
		3i GQP link	EP 3071698	A4	2017-06-28		JP 2016537982	A	2016-12-08	ALIVE	PENDING	2034-11-19	WO2015077290-0001	100.00	1368	probable disclosure (not found by automated parsing)	3e	
		3j GQP link	HK 1229380	A	2017-11-17		JP 2020062033	A	2020-04-23	ALIVE	PENDING	2034-11-19						
		3k Innov link	EP 3071698	B1	2019-09-04		DK 3071698T	T3	2019-11-18	ALIVE	GRANTED	2034-11-19						
			EP 3604543	A1	2020-02-05		ES 2754498	T3	2020-04-17	ALIVE	GRANTED	2034-11-19						

...for each family in your final

US20150132263-0002	100.00	1368	claim: 19; 20
US20150353901-0002	100.00	1368	claim: 19; 20

Choose between conflicting values...

	Drug
1	KRT 2
a	
1	KRT-
b	
1	KRT-
c	
1	KRT-
d	

Column Rule - Highest Phase

Highest Phase

Choose how Reference Rows will select data for this column.

Selection Rule: Most Recently Updated

Match column:

- Use database ranking
- Earliest Date
- Latest Date
- Most Content (characters)
- Least Content (characters)
- Most Content (lines)
- Highest Development Phase
- Most Recently Updated**
- Match Column
- Highest Number
- Lowest Number
- Closest to Zero
- Row Status
- Summarize All Values
- Summarize Unique Values
- Select New Publications

Database Ranking for

- Citeline Pharmaproject
- Cortellis from Clarivate
- Adis R&D Insight

most recently updated

Move Up















Move Down

Cells which

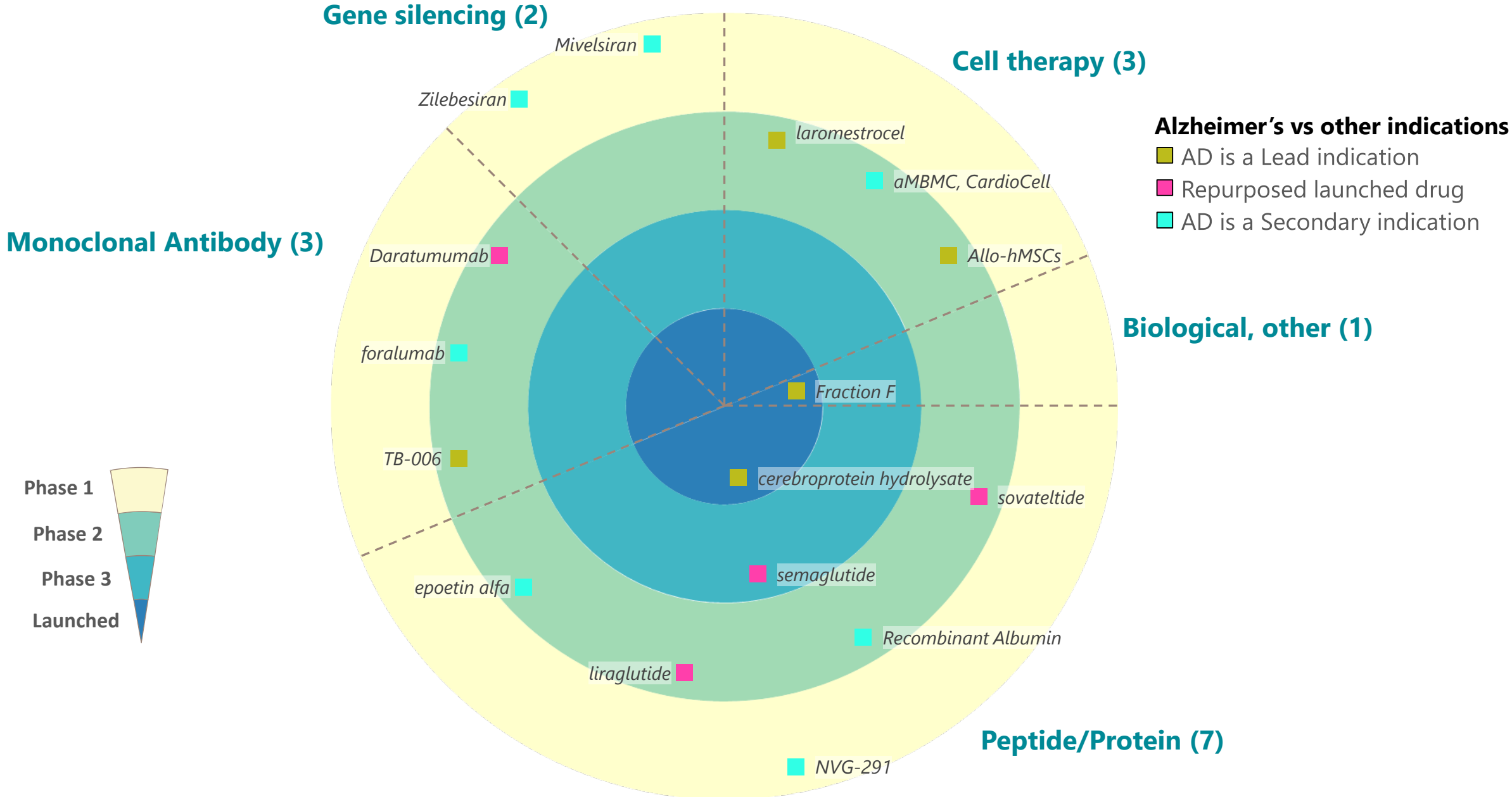
check mark.

Fully Integrated

Alzheimers and Cardiovascular Disease (Citeline, GlobalData, PatSnap) - Feb 2025

	Drug Name	Database	Developer	Indication Phase (Normalized)		Highest Phase (Alzheimers)	Product Description	Drug Modification
				Indication	Phase			
1 a	zilebesiran	 Citeline Pharmaprojects	 Alnylam	 Hypertension, unspecified Pre-eclampsia	Phase 2 No Development Reported		Zilebesiran (ALN-AGT; RG6615) is an sc administered long-lasting RNAi therapeutic targeting angiotensinogen (AGT), under development by Alnylam using its ESC-GalNAc-conjugate delivery platform technology for the treatment of uncontrolled hypertension. It was previously under development for hypertensive disorders of pregnancy (HbP) which included preeclampsia (Press release, Alnylam, 12 Sep 2014; [CONT.]	
1 b	zilebesiran sodium	GlobalData Drugs	 Alnylam Pharmaceuticals Inc	Hypertension Pre-Eclampsia	Phase 2 No Development Reported		Zilebesiran sodium (ALNAGT-01) is under development for hypertension. The drug candidate is administered subcutaneously. The drug candidate is a siRNA which acts targeting angiotensinogen (AGT) and developed based on enhanced stabilization chemistry (ESC)-GalNAc-conjugate delivery platform technology. It was also under development for the treatment of pre-eclampsia. 	
1 c	Zilebesiran	PatSnap Synapse	 Alnylam Pharmaceuticals, Inc.	Hypertension Alzheimer Disease	Phase 2 Phase 1	 Phase 1 		phosphorothioate 2'-O-methyl 2'-fluoro glycol nucleic acid sodium cation GalNAc-L96 
2 a	DB-105	 Citeline Pharmaprojects	 Orion Pharma	 Alzheimer's disease Depression, unspecified Raynaud's disease Schizophrenia	No Development Reported Discontinued Discontinued Discontinued	No Development Reported	DB-105 (formerly ORM-12741) is an alpha2c receptor antagonist, which was under development by Denovo Biopharma for the treatment of Alzheimer's disease (Press release, Denovo, 18 Jun 2019, https://www.prnewswire.com/news-releases/denovo-biopharma-receives-global-rights-to-a-novel-late-stage-drug-for-alzheimers-disease-from-orion-corporation-for-development-as-a-personalized-medicine-300869563.html). [CONT.]	
2 b	DB-105	GlobalData Drugs	 Orion Corp	Alzheimer's Disease Raynauds Disease	Phase 2 No Development Reported	Phase 2	DB-105 is under development for the treatment of Alzhieimers disease. It is administered orally. The drug candidate acts by targeting Alpha 2 C adrenoceptor. The drug candidate is a new molecular entity (NME). DB-105 was under development for the treatment of 	

Cardiovascular Drugs for Alzheimer's - Biologics



Visualizations

- Two key challenges in visualization are normalization and categorization
- Integrated reports may make normalization more difficult
- But additional indexing can often make categorization easier

Cardiovascular Drugs for Alzheimer's - Biologics

Phase 1	Phase 2	Phase 3	Launched
Mivelsiran <i>Alnylam Pharmaceuticals Inc</i>	Allo-hMSCs <i>University of Miami</i>	semaglutide <i>Novo Nordisk</i>	Fraction F <i>Gentium</i>
Zilebesiran <i>Alnylam Pharmaceuticals, Inc.</i>	aMBMC, CardioCell <i>CardioCell</i>		cerebroprotein hydrolysate <i>Invision Medi Sciences</i>
NVG-291 <i>Case Western, OSU</i>	Iaromestrocel <i>Longeveron</i>		
	Daratumumab <i>Janssen Global Services LLC</i>		
	foralumab <i>Brigham and Women's Hospital, Light Chain Bioscience</i>		
	TB-006 <i>TrueBinding</i>		
	epoetin alfa <i>Center of Molecular Immunology</i>		
	liraglutide <i>Novo Nordisk AS</i>		
	Recombinant Albumin <i>ProTgen</i>		
	sovateptide <i>Chicago Labs Inc, University of Illinois</i>		

Drug Type

Biological, other

Cell therapy

Gene silencing

Monoclonal Antibody

Peptide/Protein

Cardiovascular Drugs for Alzheimer's - Biologics

Phase I	Phase II	Phase III	Launched
Mivelsiran Alnylam Pharmaceuticals Inc	mesenchymal bone marrow-derived stem cells, Stemedica-1 CardioCell	semaglutide Novo Nordisk	Fraction F Gentium
Zilebesiran Alnylam Pharmaceuticals, Inc.	mesenchymal stem cells, Longeveron Longeveron		cerebroprotein hydrolysate Invision Medi Sciences Pvt Ltd
NVG-291 Case Western Reserve University, Ohio State University	Allo-hMSCs University of Miami		
	Daratumumab Janssen Global Services LLC		
	foralumab Brigham and Women's Hospital, Light Chain Bioscience, Medarex Inc (Inactive)		
	TB-006 TrueBinding Inc		
	liraglutide Novo Nordisk AS		
	epoetin alfa Center of Molecular Immunology		
	Recombinant Human Serum Albumin ProTgen, Inc.		
	sovateltide Chicago Labs Inc, University of Illinois		

Drug Type

Allogeneic

Antisense RNAi Oligonucleotide

Biological, other

Mesenchymal stem cell therapy

Monoclonal Antibody

Peptide

Recombinant Peptide

Recombinant Protein

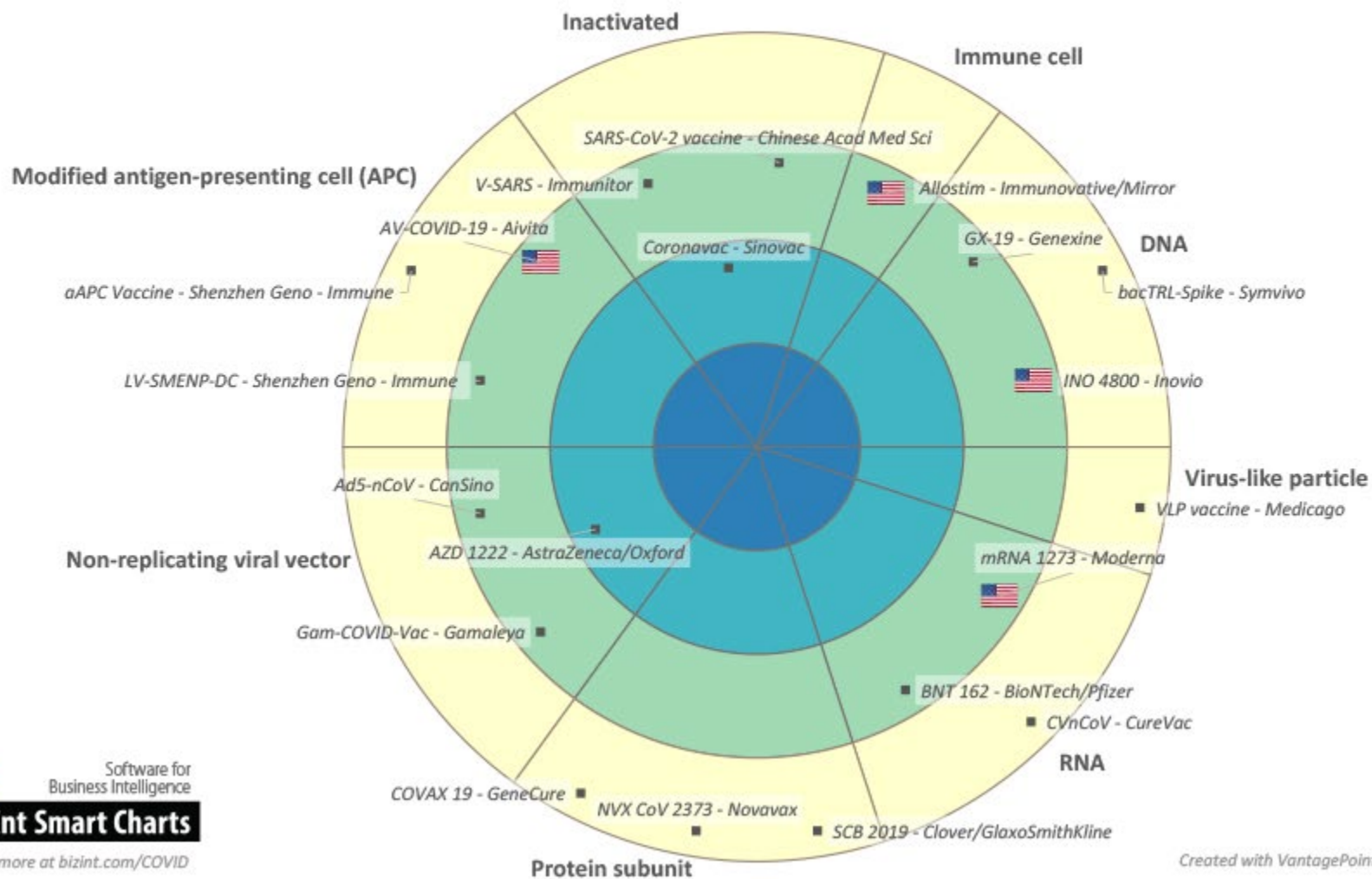
siRNA

Synthetic Peptide

Visualizations

COVID-19 Vaccine Landscape

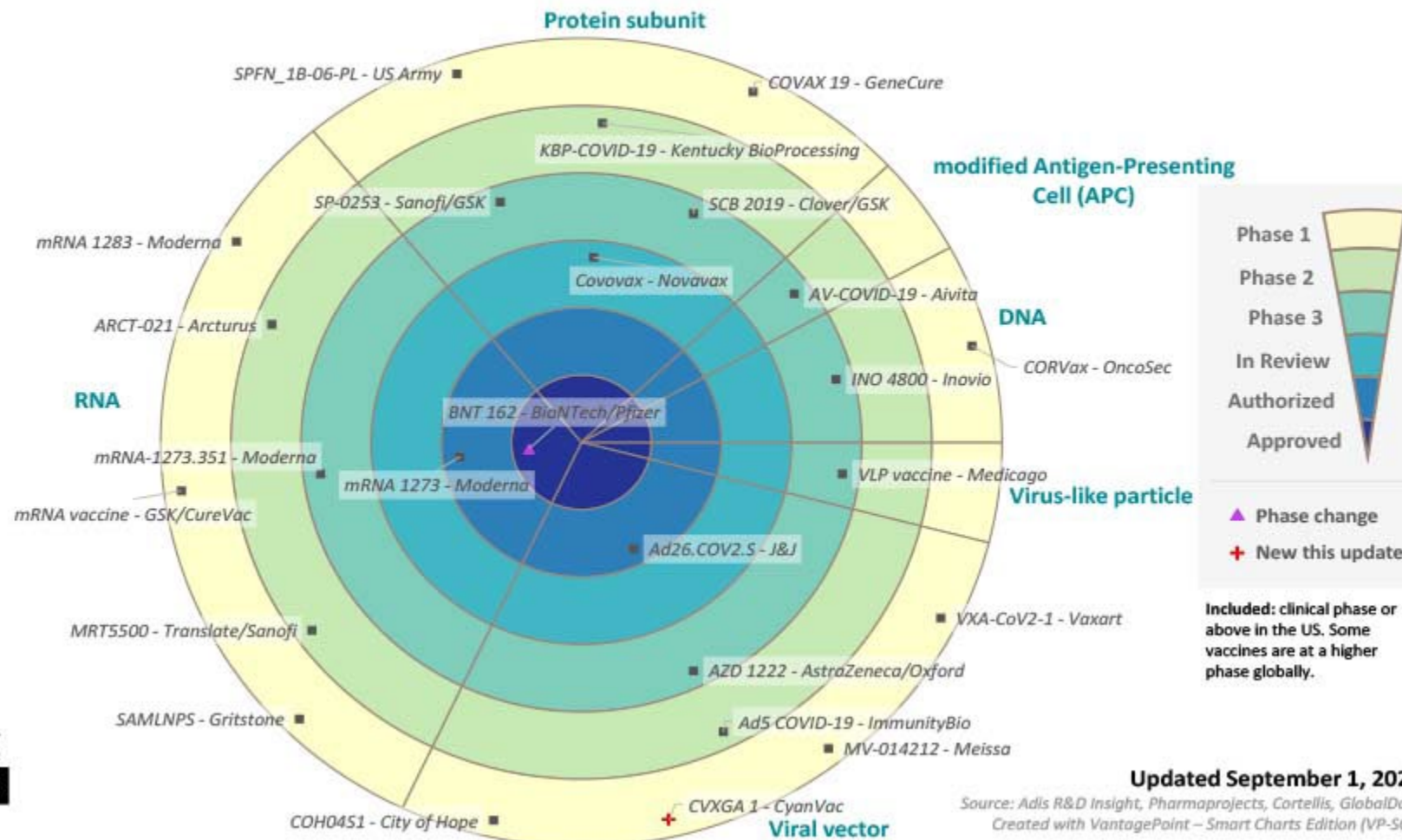
VP-SCE BullseyeSM



Visualizations

COVID-19 Vaccines – US

VP-SCE BullseyeSM



Integrating over time

- What happens if you integrate result over time?
- What has changed?
- What refers to the same topic?

$$\int_{t=0s}^{t=2s} v(t) dt$$

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

Update your existing report...

New records and changes in updated records are highlighted.

Title	Pub No.	FTO Family Kind	Pub Date	Status	Patent Assignee	Inventor(s)	Abstract
1 Methods and compositions for sequences guiding cas9 targeting	W O2015112896	A2	2015-07-30		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 DNA targeting of proteins.
	W O2015112896	A3	2015-10-29				
	W O2015112896	A9	2015-11-26				
2 Rna modification to engineer cas9 activity	W O2015200555	A2	2015-12-30		CARIBOU BIOSCIENCES	MAY ANDREW PAUL DONOHUE PAUL NYE CHRISTOPHER SLORACH EUAN HAURWITZ RACHEL	(WO2015200555) 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 O2015200555	A3	2016-03-10				
3 Crispr-cas-related methods, compositions and components for cancer immunotherapy	W O2015161276	A2	2015-10-22		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 from the FAS, BID, CTLA4, PDCD1, CBLB, PTPN6, TRAC or TRBC gene. In some embodiments, gRNAs are used with Cas9 enzymes to cause a cleavage event in said gene within engineered chimeric antigen receptor (CAR) T cells [CONT.]
	W O2015161276	A3	2015-12-10				
4 Crispr/cas-related methods and compositions for treating cystic fibrosis	W O2015157070	A2	2015-10-15		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).
	W O2015157070	A3	2015-12-30				
5 Crispr/cas-related methods and compositions for treating sickle cell disease	W O2015148863	A2	2015-10-01		EDITAS MEDICINE	FRIEDLAND ARI E MAEDER MORGAN L WELSTEAD G GRANT BUMCROT DAVID A COTTA-RAMUSINO CESILIA	(WO2015148863) CRISPR/CAS-related compositions and methods for treatment of Sickle Cell Disease (SCD) are disclosed.
	W O2015148863	A3	2015-12-23				

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

Title	Row Status	Patent Assignee	Pub No.	FTO Family Kind	Pub Date	Status	New Publications
1 Method for producing genome-edited plants using plant virus vectors	Added	NATIONAL AGRICULTURE & FOOD RESEARCH ORGANIZATION	WO 2018151155	A1	2018-08-23	LAPSED	WO 2018151155 A1
			US 20190359993	A1	2019-11-28	PENDING	US 20190359993 A1
			JP 2018151155W	A1	2019-12-12	PENDING	JP 2018151155
2 Dna writers, molecular recorders and uses thereof	Added	MIT - MASSACHUSETTS INSTITUTE OF TECHNOLOGY US NAVY	WO 2018152197	A1	2018-08-23	LAPSED	WO 2018152197 A1
			US 20200063127	A1	2020-02-27	PENDING	US 20200063127 A1
3 RNA-guided transcriptional regulation	Added	HARVARD COLLEGE	US 9267135	B2	2016-02-23	GRANTED	US 9267135 B2
			US 20140356959	A1	2014-12-04		US 20140356959 A1
			US 10640789	B2	2020-05-05	GRANTED	US 10640789 B2
			US 20160237456	A1	2016-08-18		US 20160237456 A1
			US 10767194	B2	2020-09-08	GRANTED	US 10767194 B2
			US 20200024618	A1	2020-01-23		US 20200024618 A1
			US 20140356956	A1	2014-12-04	PENDING	US 20140356956 A1
			US 20200299732	A1	2020-09-24	PENDING	US 20200299732 A1
4 Compositions and methods for targeted gene disruption in prokaryotes	Updated	ZYMERGEN	WO 201570193	A1	2015-05-14	LAPSED	
			US 20150132263	A1	2015-05-14	LAPSED	
			US 20150353901	A1	2015-12-10	LAPSED	
5 Large gene excision and insertion	Updated	HARVARD COLLEGE	EP 3071698	B1	2019-09-04		EP 3071698 B1
			EP 3071698	A2	2016-09-28	GRANTED	EP 3071698 A2
			EP 3071698	A4	2017-06-28		EP 3071698 A4
			EP 3604543	A1	2020-02-05	PENDING	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
			US 20150140664	A1	2015-05-21		DK 3071698
			JP 2016537982	A	2016-12-08	PENDING	ES 2754498
			JP 2020062033	A	2020-04-23	PENDING	CA 2930828 A1
			DK 3071698T	T3	2019-11-18	GRANTED	AU 2014353100 A1
			ES 2754498	T3	2020-04-17	GRANTED	KR 20160078502 A
			CA 2930828	A1	2015-05-28	PENDING	
			AU 2014353100	A1	2016-06-02	PENDING	
			KR 20160078502	A	2016-07-04	PENDING	

...with new data.

BizInt Smart Charts

for Patents

New Chart Appearance
Version 5.9.3 - March 2025

Updated appearance for BizInt Smart Charts

- New fonts
- Adjusted margins
- Cleaner appearance
- Color indication of product

Updated appearance for BizInt Smart Charts

FAMPAT: orbit-vertex-cfi										
	Title	FTO Family with Expiry					Patent Assignee	Patent Number	Patent Date	
		Pub No.	Kind	Pub Date	State	Status				Est Expiry
1	Complement factor-i formulations	JP 2025503483	A	2025-02-04				VERTEX PHARMACEUTICALS	JP 2025503483 A	2025-02-04
		BR 112024012847	A2	2024-11-05						
		EP 4452321	A1	2024-10-30	ALIVE	PENDING	2042-12-21			
		KR 20240124950	A	2024-08-19						
		CN 118450906	A	2024-08-06						
		IN 202447055854	A	2024-08-02						
		IL 313777	A	2024-08-01						
		SG 11202404181S	A	2024-07-31						
		BR 112024012847	A0	2024-07-02						
		MX 2024007731	A	2024-07-01						
		AU 2022420007	A1	2024-06-20						
		CA 3241714	A1	2023-06-29						
		WO 2023122691	A1	2023-06-29						
2	Complement factor i-related compositions and methods	JP 2025501749	A	2025-01-23				VERTEX PHARMACEUTICALS	JP 2025501749 A	2025-01-23
		EP 4452297	A2	2024-10-30	ALIVE	PENDING	2042-12-21			
		CN 118804759	A	2024-10-18						
		BR 112024012764	A2	2024-09-17						
		IN 202447055866	A	2024-08-02						
		IL 313780	A	2024-08-01						
		KR 20240117138	A	2024-07-31						
		SG 11202404179Y	A	2024-07-31						
		BR 112024012764	A0	2024-07-02						
		MX 2024007732	A	2024-07-01						
		AU 2022420600	A1	2024-06-20						
		WO 2023122689	A3	2023-08-10						
		CA 3241724	A1	2023-06-29						
		WO 2023122689	A2	2023-06-29						
3	Complement factor i-related	US 12116606	B2	2024-10-15	ALIVE	GRANTED	2042-06-26	CATALYST BIOSCIENCES	US 12116606 B2	2024-10-15

Using color to identify the product

- BizInt Smart Charts uses blue column headings

PatSnap BIO: zilbesiran_sequences

	Patent Number	Patent Date	Title	Patent Assignee	Priority Date	SEQ ID NO
5	US 11015201 B2	2021-05-25	Angiotensinogen (AGT) iRNA compositions and methods of use thereof	ALNYLAM PHARMA INC	2018-05-14	SEQ ID. 737, 322, 596, 369, 690, 228, 275, 643
6	US 11015201 B2	2021-05-25	Angiotensinogen (AGT) iRNA compositions and methods of use thereof	ALNYLAM PHARMA INC	2018-05-14	SEQ ID. 378, 605, 652, 331, 699, 237, 284
7	US 11015201 B2	2021-05-25	Angiotensinogen (AGT) iRNA compositions and methods of use thereof	ALNYLAM PHARMA INC	2018-05-14	SEQ ID. 745

- Smart Data Integrator uses tan

PatSnap BIO: zilbesiran_sequences

	Patent Number	Common Family	Patent Date	Title	Patent Assignee	Priority Date	SEQ ID NO
1 a	US 11015201 B2	US 11015201	2021-05-25	Angiotensinogen (AGT) iRNA compositions and methods of use thereof	ALNYLAM PHARMA INC	2018-05-14	SEQ ID. 957, 713, 951, 345, 619, 9, 251, 298
1 b	US 11015201 B2	US 11015201	2021-05-25	Angiotensinogen (AGT) iRNA compositions and methods of use thereof	ALNYLAM PHARMA INC	2018-05-14	SEQ ID. 529, 941, 12, 947, 114, 67, 161, 948, 946, 482, 435, 10
1	US 11015201 B2	US 11015201	2021-05-25	Angiotensinogen (AGT) iRNA compositions and methods of use thereof	ALNYLAM PHARMA INC	2018-05-14	SEQ ID. 555, 11

Using color to identify the product

- Patents data uses teal for selection

PatSnap BIO: zilbesiran_sequences

	Patent Number	Common Family	Patent Date	Title	Patent Assignee	Priority Date	SEQ ID NO
1 a	US 11015201 B2	US 11015201	2021-05-25	Angiotensinogen (AGT) iRNA compositions and methods of use thereof	ALNYLAM PHARMA INC	2018-05-14	SEQ ID. 957, 713, 951, 345, 619, 9, 251, 298
1 b	US 11015201 B2	US 11015201	2021-05-25	Angiotensinogen (AGT) iRNA compositions and methods of use thereof	ALNYLAM PHARMA INC	2018-05-14	SEQ ID. 529, 941, 12, 947, 114, 67, 161, 948, 946, 482, 435, 10
1	US 11015201 B2	US 11015201	2021-05-25	Angiotensinogen (AGT) iRNA	ALNYLAM PHARMA INC	2018-05-14	SEQ ID. 556, 11

- Drug Development Suite uses plum for selection

Synapse Drugs: Takeda Synapse 3-7-25

	Drug Name	Common Drug Name	Developer	Highest Phase (Normalized)	Indication Phase (Normalized)		Indication
					Indication	Phase	
1	Apadamtase alfa /Cinaxadamtase alfa	Apadamtase alfa /Cinaxadamtase alfa	The Chemo-Sero-Therapeutic Research Institute	Launched	Congenital Thrombotic Thrombocytopenic Purpura Thrombotic Thrombocytopenic Purpura, Acquired Anemia, Sickle Cell [Purpura, Thrombotic Thrombocytopenic]	Launched Phase 2 Phase 1 Phase 1	Congenital Thrombotic Thrombocytopenic Purpura Thrombotic Thrombocytopenic Purpura, Acquired Anemia, Sickle Cell
2	Dengue vaccine tetravalent(Takeda)	Dengue vaccine tetravalent	Takeda Pharmaceutical Co., Ltd.	Launched	Dengue [Hepatitis A] [Yellow Fever]	Launched Phase 3 Phase 3	Dengue

Beyond good looks

- Selecting cells, rows, or columns works better now
- BizInt Smart Charts doesn't lose track of the selection
- Fixed issues with cell editing
- Laid the groundwork for new features



BizInt Smart Charts

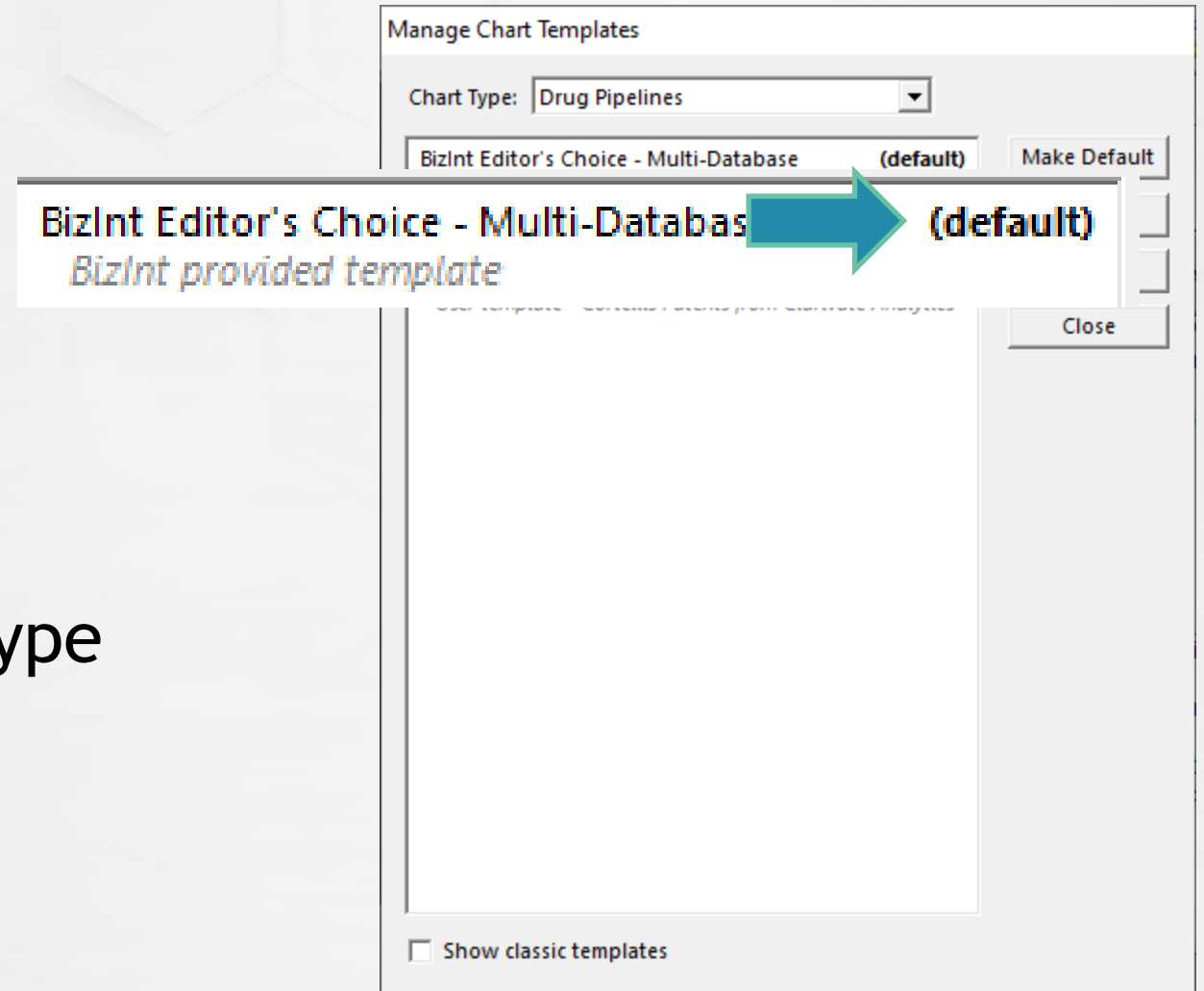
for Patents

Chart Template Enhancements

Version 5.8.4 - 2024

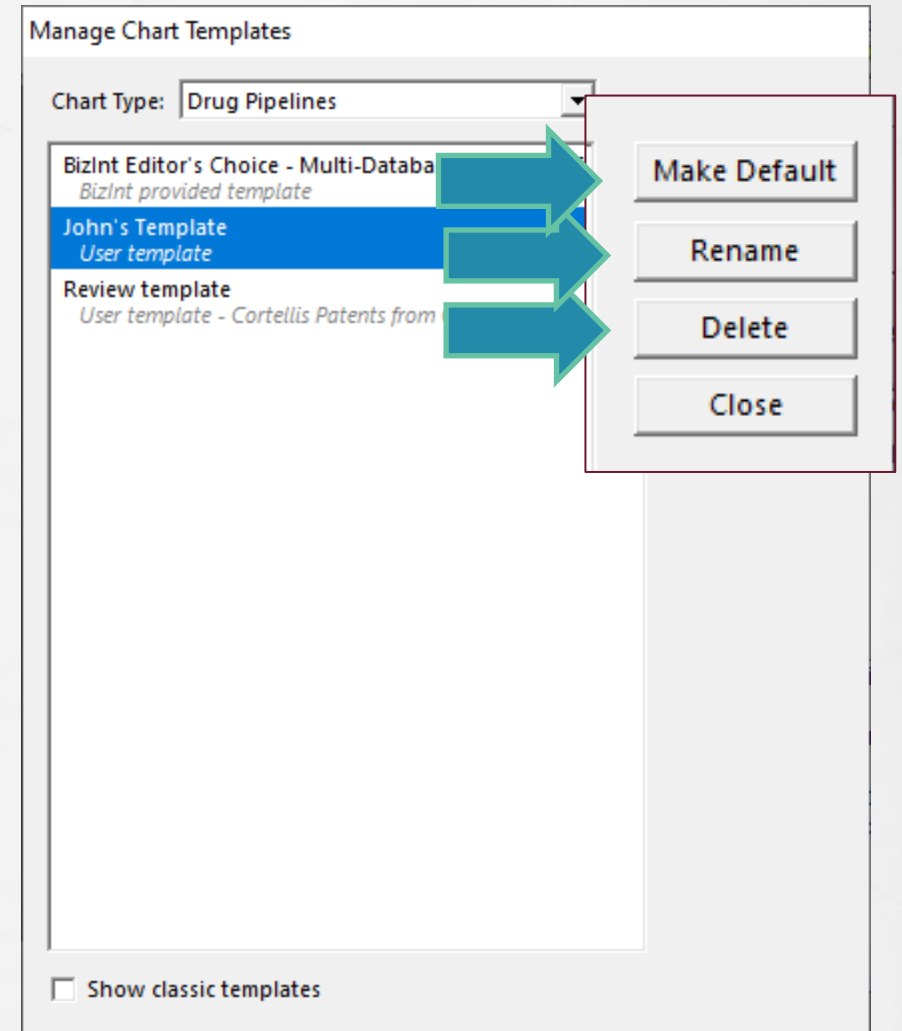
Default templates

- When you import data and create a chart, the default template is applied automatically
- Same template used when creating charts for a chart type






NEW Manage Templates command

- File menu or via Apply Template
- Rename a template*
- Delete a template*
- * user templates only
- Make a template the default template for that chart type



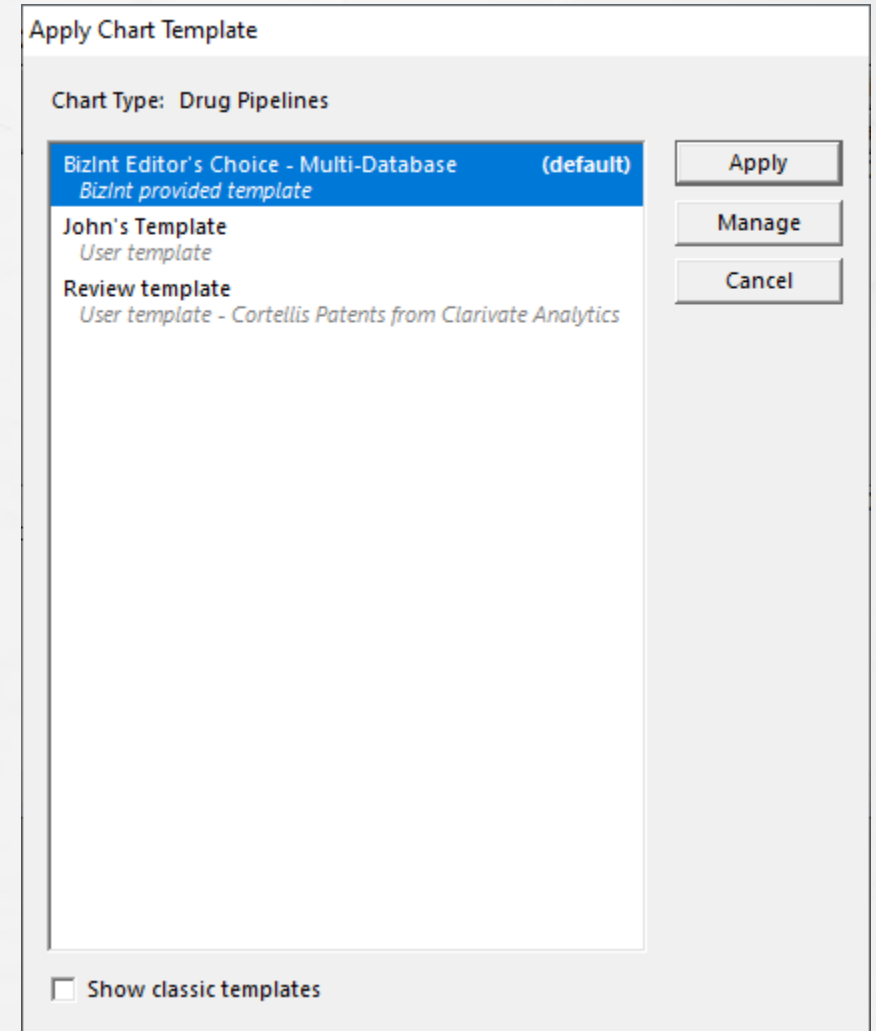
Long file names

- Chart template files now have long, descriptive file names
- Makes it easier to share files with your colleagues
- Find templates in `%appdata%\bizint\template`
- Older templates still have short file names

Name	Date modified	Type
 %CLIN.John_2s Favorite Template.ctt	3/2/2024 3:09 AM	CTT File
 %DRUJohn.ctt	5/29/2018 10:13 AM	CTT File
 %PATJame.ctt	6/7/2018 10:08 AM	CTT File

Use compatible templates

- You can apply any template for the same chart type to a chart
- Example: apply a chart template created from a combined chart to a chart from CAplus
- Example: apply template from Orbit to a chart from DWPI



Classic templates

- Many old templates provided by BizInt are no longer shown
- Click “Show classic templates” to make them visible
- Want a classic template on your list all the time?
Apply it to a chart and save as a new template



Apply Chart Template

Chart Type: Drug Pipelines

Basic Information
BizInt provided template

BizInt Editor's Choice - Multi-Database (default)
BizInt provided template

Chemical Information
BizInt provided template

Development History
BizInt provided template

Development Summary with Normalized Phase
BizInt provided template

Drug Names First
BizInt provided template

John's Template
User template

Key Attributes Chart
BizInt provided template - GlobalData Drugs

Latest Information
BizInt provided template

Review template
User template - Cortellis Patents from Clarivate Analytics

☒ Show classic templates

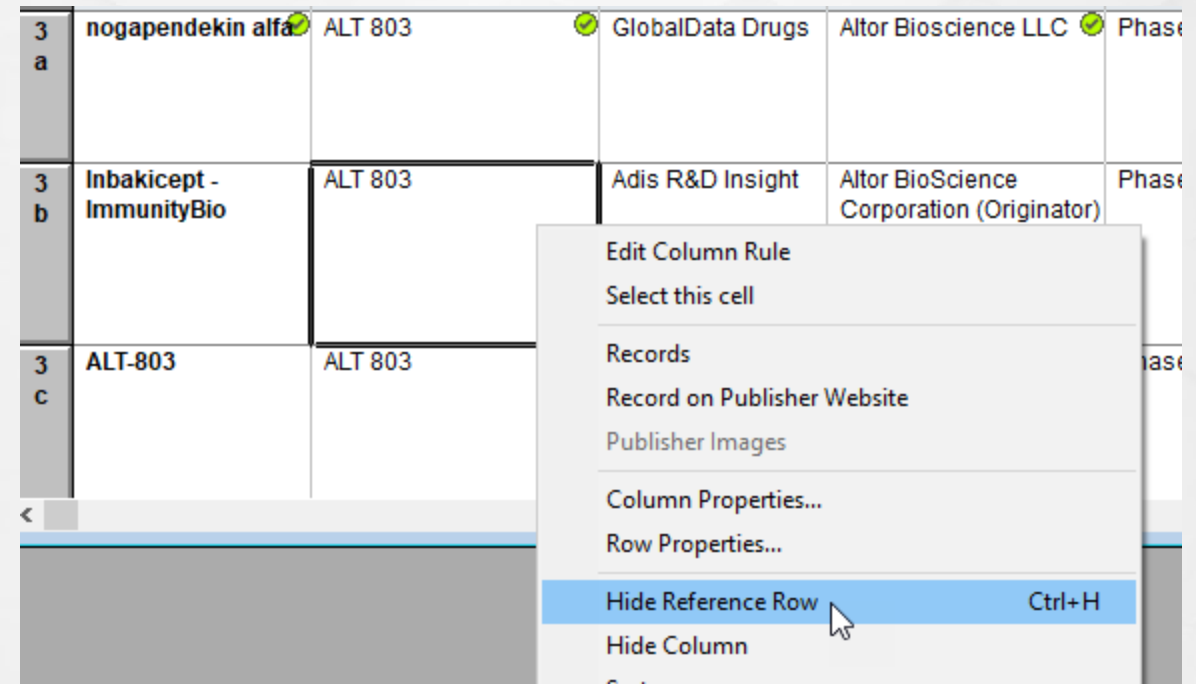
BizInt Smart Charts

for Patents

Data Integrator Workflow
Version 5.6 - 2021

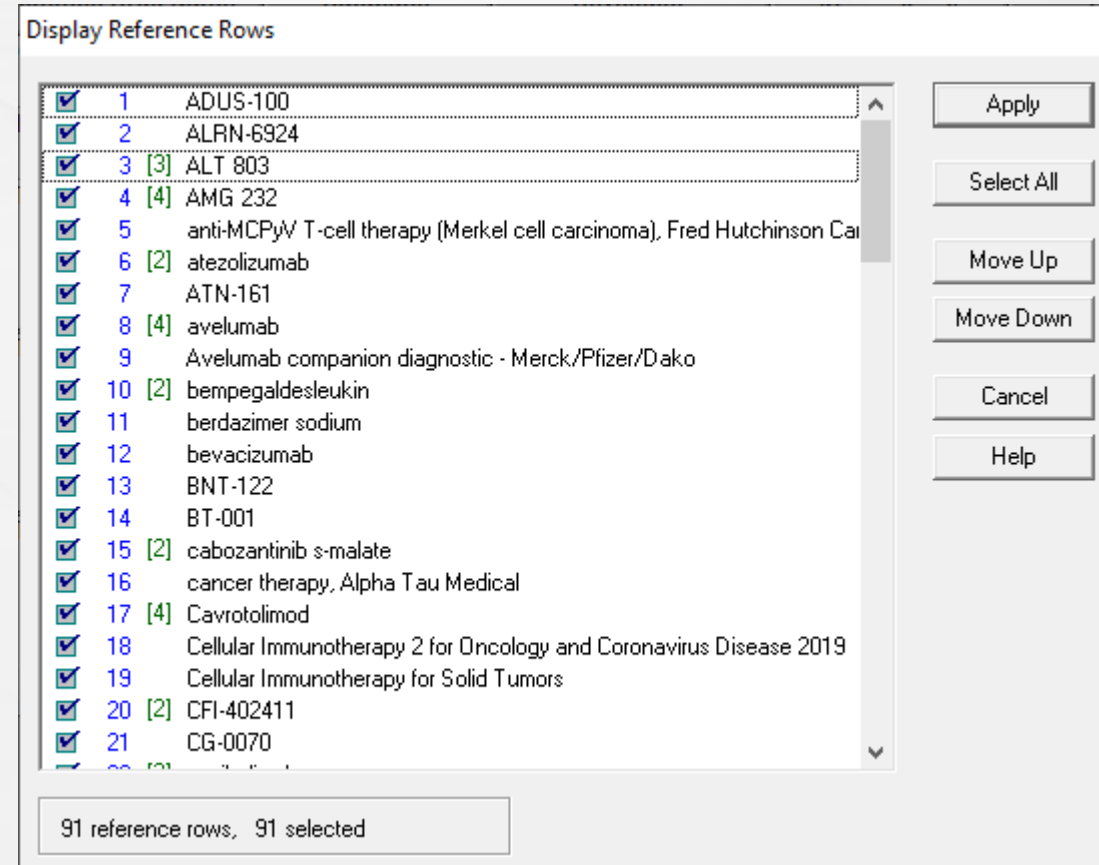
Hide Integrated Rows

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



View | Integrated Rows

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



Integrated Rows Cell Attribution

- Show Cell Sources... on the Integrated Rows menu controls how the source of a cell is shown
- Attributions are in grey (not color)

Show Cell Source Options

Specify how the database source of a cell is shown in exports:

☐ At the bottom of the cell

☐ Following the cell text

☒ Do not show cell source

OK Cancel Help...

Allergen
Immunomodulator

14a COR

Allergen
Immunomodulator
{14a COR}

Allergen
Immunomodulator



BizInt Smart Charts

for Patents

Database Updates

**Clinical
Trials**

 **CITELINE**

ClinicalTrials.gov

 **Adis**

 **Cortellis**[™]
A Clarivate Analytics solution

 **GlobalData.**

TrialTrove

New JSON export

**Trials
Intelligence**

Clinical Trials

Drug Pipeline

NEW!

 **CITELINE**

 **Adis**

 **Cortellis™**
A Clarivate Analytics solution

 **GlobalData.**

 **patsnap**

Pharmaprojects

R&D Insight

Including
Cortellis Drug
Discovery
Intelligence (CDDI)

Drugs

Synapse

Patents

CAS 

 minesoft

Questel

 **Derwent**[™]
A Clarivate Analytics company

 **Cortellis**[™]
A Clarivate Analytics solution

 patsnap

STNNext

PatBase

Orbit

Innovation

Patents

Analytics

Patent Sources

- Publication or Family level
- Different family definitions
- Value added content
 - CAS & Derwent Abstracts, Titles
 - Indexing
 - Ownership, Legal Status
 - Associated drugs

Patent Sources

- See “What’s New” for database enhancements
- New support for Patsnap Analytics
- “BizInt” export from Orbit has been degraded
we recommend using the XML export at this time

PatBase User Fields

- If you have custom fields defined in PatBase, the contents appear in “User” columns with the same field name
- Works for both User Fields and PatKM
- New export requires version 5.8.1,
Legacy export unchanged since version 4.5.1

Selected Columns

	Title
	Image
	Abstract
	International Patent Class
	Patent Assignee
User	Business Area
User	Case Reference
User	Feature
User	Name of Project

PatBase Folder Notes

- Version 5.8 includes an update to how we handle Folder Notes
- Applies to both Legacy and New exports
- Attribution is cleaner, only shows publication number when it changes
- Only show language if MT
- Clean up HTML markup within notes
- No truncation

Notes	Notes (Old)
<p>US2002017181A1 - Claims</p> <p>1. A woodworking machine having a cutting region for cutting workpieces, comprising: a movable cutting tool for cutting workpieces in the cutting region; a detection system adapted to detect one or more dangerous conditions between a person and the cutting tool; and a reaction system associated with the detection system and the cutting tool, where the reaction system is configured to retract the cutting tool at least partially away from the cutting region upon detection of at least one of the dangerous conditions by the detection system.</p> <p>8. The machine of claim 7, where engagement of the braking component with the cutting tool causes the cutting tool to move out of the cutting region.</p> <p>Abstract</p> <p>The machines include a detection system adapted to detect one or more dangerous conditions between a person and the cutting tools, and a reaction system associated with the detection system.</p>	<p>From US2002017181AA- Claims:
[EN] 1. A woodworking machine having a cutting region for cutting workpieces, comprising:
a movable cutting tool for cutting workpieces in the cutting region;
a detection system adapted to detect one or more dangerous conditions between a person and the cutting tool; and
a reaction system associated with the detection system and the cutting tool, where the reaction system is configured to retract the cutting tool at least partially away from the cutting region upon detection of at least one of the dangerous conditions by the detection system. [CONT.]</p>

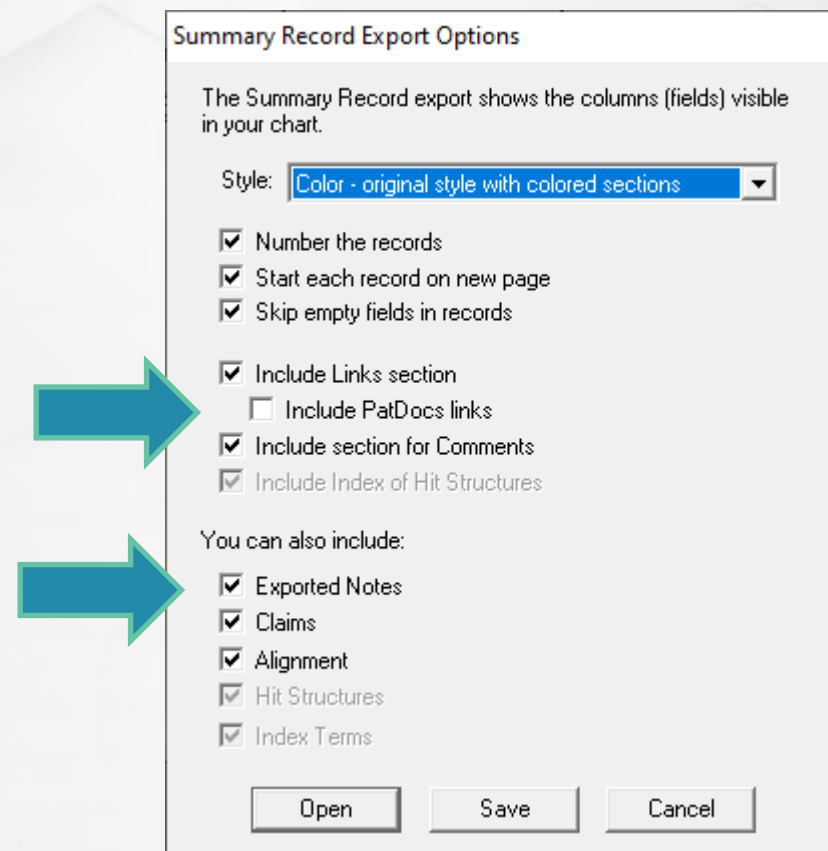
PatBase Folder Notes

- Publication level - only shows notes clipped from the current publication
- Type **From US2002017181AA:** at the start of your written notes to associate them with a single publication

Notes	Notes (Old)
<p>US2002017181A1 - Claims</p> <p>1. A woodworking machine having a cutting region for cutting workpieces, comprising: a movable cutting tool for cutting workpieces in the cutting region; a detection system adapted to detect one or more dangerous conditions between a person and the cutting tool; and a reaction system associated with the detection system and the cutting tool, where the reaction system is configured to retract the cutting tool at least partially away from the cutting region upon detection of at least one of the dangerous conditions by the detection system.</p> <p>8. The machine of claim 7, where engagement of the braking component with the cutting tool causes the cutting tool to move out of the cutting region.</p> <p>Abstract</p> <p>The machines include a detection system adapted to detect one or more dangerous conditions between a person and the cutting tools, and a reaction system associated with the detection system.</p>	<p>From US2002017181AA- Claims:
[EN] 1. A woodworking machine having a cutting region for cutting workpieces, comprising:
a movable cutting tool for cutting workpieces in the cutting region;
a detection system adapted to detect one or more dangerous conditions between a person and the cutting tool; and
a reaction system associated with the detection system and the cutting tool, where the reaction system is configured to retract the cutting tool at least partially away from the cutting region upon detection of at least one of the dangerous conditions by the detection system. [CONT.]</p>

Summary Records

- Summary Records include the option to link to the PatDocs family
- Folder Notes are available in a separate block (nicely formatted) using the “Exported Notes” option



Summary Record Export Options

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

Style: Color - original style with colored sections

☒ Number the records
☒ Start each record on new page
☒ Skip empty fields in records

☒ Include Links section
☐ Include PatDocs links
☒ Include section for Comments
☒ Include Index of Hit Structures

You can also include:

☒ Exported Notes
☒ Claims
☒ Alignment
☒ Hit Structures
☒ Index Terms

Open Save Cancel

Summary Records with Exported Notes



Abstract:

Source: US2002017181; Woodworking machines are disclosed having movable cutting tools for cutting workpieces in a cutting region. The machines include a detection system adapted to detect one or more dangerous conditions between a person and the cutting tools, and a reaction system associated with the detection system. [CONT.]

Image:

Hyperlinks:

[Source](#) | [US 2002017181 A1](#) | [PatDocs Family Tree](#)



Comments:

Exported Notes:

US2002017181A1 - Claims

1. A woodworking machine having a cutting region for cutting workpieces, comprising: a movable cutting tool for cutting workpieces in the cutting region; a detection system adapted to detect one or more dangerous conditions between a person and the cutting tool; and a reaction system associated with the detection system and the cutting tool, where the reaction system is configured to retract the cutting tool at least partially away from the cutting region upon detection of at least one of the dangerous conditions by the detection system.

8. The machine of claim 7, where engagement of the braking component with the cutting tool causes the cutting tool to move out of the cutting region.

Abstract

The machines include a detection system adapted to detect one or more dangerous conditions between a person and the cutting tools, and a reaction system associated with the detection system.

Claims:

US2002017181AA

1. A woodworking machine having a cutting region for cutting workpieces, comprising: a movable cutting tool for cutting workpieces in the cutting region; a detection system adapted to detect one or more dangerous conditions between a person and the cutting tool; and a reaction system associated with the detection system and the cutting tool, where the reaction system is

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PatBase Independent Claims

- All independent claims now extracted into a column “Claims - Independent”
- Existing claims column now named “Claims - First”
- Available in version 5.8.5

Claims - First	Claims - Independent
US2023000954A1 1. A composition comprising fibronectin (FN), wherein the FN is mesenchymal stem cell (MSC)-derived FN.	US2023000954A1 1. A composition comprising fibronectin (FN), wherein the FN is mesenchymal stem cell (MSC)-derived FN. 23. The composition according to claim 22, wherein the composition does not comprise NaCl and/or MgCl2.
WO23278807A1 1. A system for treating glaucoma, comprising: an intraocular shunt made of a cross-linked gelatin, the intraocular shunt having a shunt outer diameter of between about 170 micro m to about 260 micro m, and the intraocular shunt defining at least one interior flow path having a shunt inner diameter of between about 50 micro m and about 70 micro m; [CONT.]	WO23278807A1 1. A system for treating glaucoma, comprising: an intraocular shunt made of a cross-linked gelatin, the intraocular shunt having a shunt outer diameter of between about 170 micro m to about 260 micro m, and the intraocular shunt defining at least one interior flow path having a shunt inner diameter of between about 50 micro m and about 70 micro m; and a needle having a lumen to communicate with the intraocular shunt, the lumen having a lumen inner diameter of between about 220 to about 280 micro m. 13. A method to treat glaucoma, the method comprising: advancing a needle through the sclera of the patient to create an opening, wherein the needle has a needle diameter of between about 400 micro m to about 420

Hit Term Highlights

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



BizInt Smart Charts

for Patents

Chemistry Support
Version 5.9 - 2024

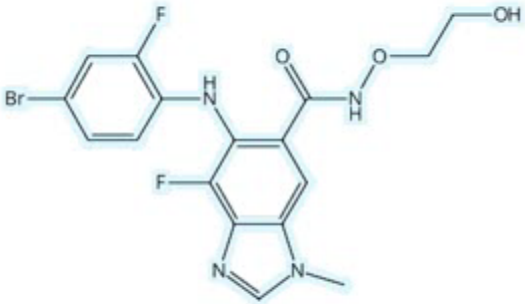
Chemistry in BizInt Smart Charts for Patents

- Patent and non-patent chemistry supported on STN
- CAplus hit structures added in Version 4.8
- Support for PatentPAK locations added in Version 5.7
- Version 5.9 adds support for MARPAT assembled structures
MSTR support only works with BizInt exports from STNNext

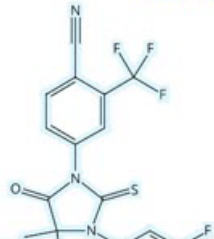
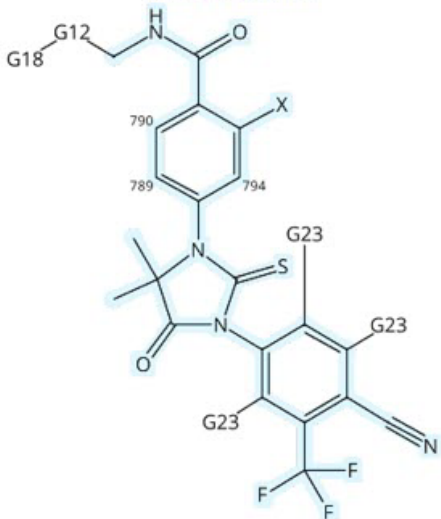
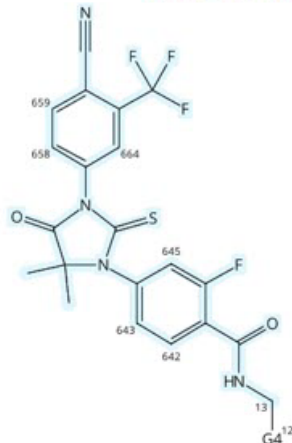
Index of Hit Structures / Markush Structures

Integrating PatentPak

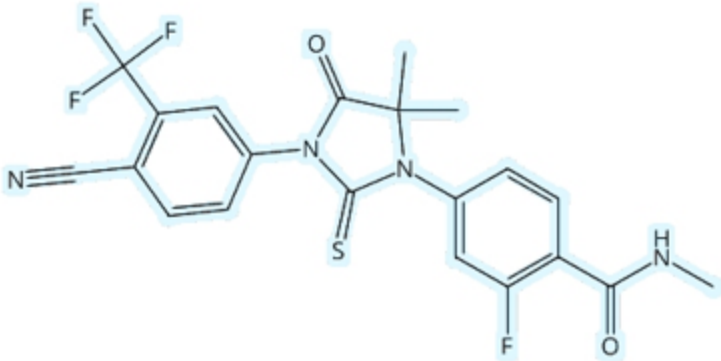
Index of Hit Structures

Substance	Structure	Reference
1 606143-89-9 1H-Benzimidazole-6-carboxamide, 5-[(4-bromo-2-fluorophenyl)amino]-4-fluoro-N-(2-hydroxyethoxy)-1-methyl- (CA INDEX NAME)		agent or probe for identifying RAS codon Q6I and/or G13R mutation for diagnosing solid tumor Reference 1 prepn. of pharmaceutical comps. comprises antibody, polypeptide and nucleic acid mol. for treatment of connective tissue disorders in human Reference 2 (Pg 80 Claim) methods and comps. for generating human midbrain neural progenitor cells Reference 3 (Pg 31)

Index of Markush Structures

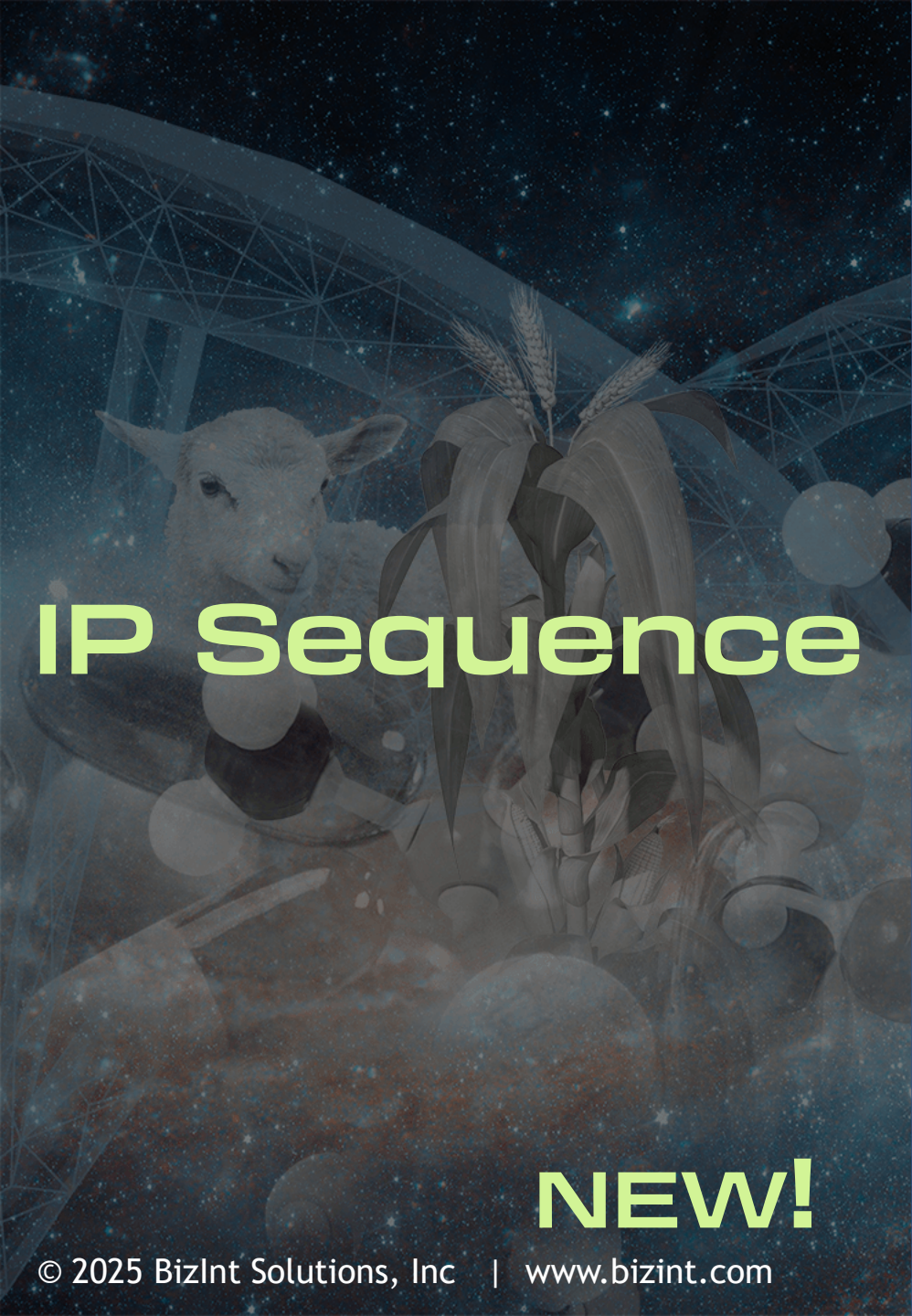
Structure	Structure
MSTR 1B Assembled 	MSTR 1 Assembled 
	

Color structure images

	Substance	Structure	Reference
1	915087-33-1 Benzamide, 4-[3-[4-cyano-3-(trifluoromethyl)phenyl]-5,5-dimethyl-4-oxo-2-thioxo-1-imidazolidinyl]-2-fluoro-N-methyl- (CA INDEX NAME)		<p>compn. conta. beauverin in medicine for inhibiting proliferation of human prostate cancer cell Reference 1</p> <p>treating metastatic castration- resistant prostate cancer with engineered bispecific PSMA x CD28 antibodies with anti- PD-1 antibodies Reference 2</p> <p>engineering of ERBB2/ERBB3 bispecific antibodies for treating castration-resistant prostate cancer Reference 3</p>

Additional Columns in MARPAT

First Hit Structure	Num Hit Structures	Node Annotations	Additional G-groups	Structure Notes	Patent Location
147:427336+1 Assembled	1	316: carbon chain <containing 1-12 C> (opt. substd. by (1-4) G4) 398: carbon chain <containing 1-12 C> (opt. substd. by (1-4) G4)		Note: additional heteroatom interruptions also claimed	claim 1
145:505452+1 Assembled	1		G15 = Me G18 = F / CONHMe	Note: substitution is restricted Note: also incorporates other claims Note: also incorporates claim 38 Note: substitution is restricted	claim 45



IP Sequence

NEW!

Aptean GenomeQuest

Questel



GenomeQuest
CAS Biosequences

Orbit
Biosequence

USGENE
DGENE
PCTGEN

Bio

IP Sequence Sources

- Unique search algorithms on platforms
- One record per sequence
- Commonly multiple queries

IP Sequence Sources

- GenomeQuest: Discovery Browser Annotations; Support for private collections, virtual databases
- Orbit Biosequences: export degraded, expect updates soon
- STN: Several updates (and more coming)
- Derwent SequenceBase
- Patsnap BIO: new support March 2025

Coming Soon

- Much simpler interface for Combine and Update
(As fast as one click in many cases)
 - Automatic handling of sequence results when combining
 - Multi-byte character support
 - And more
-
- Version 6.0 coming this summer



Questions?

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