



BizInt Smart Charts

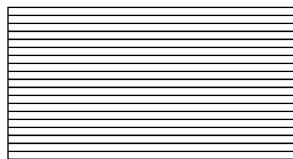
for Patents

Creating Tabular Reports from
Gene Sequence Databases

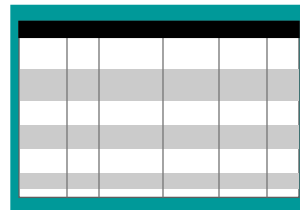
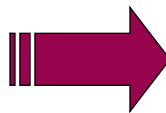
PIUG Boston Biotech Meeting
John Willmore, VP Product Development
February 10, 2010

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BizInt Smart Charts software helps you create, customize and distribute tabular reports combining information from the leading patents and drug pipeline databases.



Many records
matching search
or alert



Easy-to-read
summary table

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Each row in a chart corresponds to a sequence

**TIP: Select Sequence column
Change font to Courier New 8pt**

GOPAT Proteins: Sample Sequence Chart						
	Title	Seq. ID Number	Patent Sequence Location	Organism Species	Sequence	Query Results
79	Humanized antibodies that recognize difucosyl Lewis blood group antigens Y-6 and B-7-2	US5562903-0009	disclosure		NRLPVELVLEWFIAPSSDVLMTQPLSLPVTPGQASISCRFQSIYN SRMTTLEWLGKPGQSPQLLIYQVSRFRSGPDRFSGSGSGTDFTLKSI FVAEADLVGYYCFQGHRTFTFGGGTKLEIK	Align len= 16 nt, Errors=0, Identity= 93.75%, Similarity= 100.00% Query len= nt, pos= 1- 16 nt (fwd), Identity query= 93.75%, Nb gaps query= 0 Subject len= nt, pos= 43- 58 nt (fwd), Identity subj= 11.45%, Nb gaps subj= 0
80	Antibody derivatives.	EP0528767-0002	disclosure	Homo sapiens (human)	NRLPVELVLEWFIAPSSDVLMTQPLSLPVTPGQASISCRFQSIYN SRMTTLEWLGKPGQSPQLLIYQVSRFRSGPDRFSGSGSGTDFTLKSI FVAEADLVGYYCFQGHRTFTFGGGTKLEIK	Align len= 16 nt, Errors= 1, Identity= 93.75%, Similarity= 100.00% Query len= nt, pos= 1- 16 nt (fwd), Identity query= 93.75%, Nb gaps query= 0 Subject len= nt, pos= 43- 58 nt (fwd), Identity subj= 11.45%, Nb gaps subj= 0
81	IL-13 binding agents	US7501121-0145	disclosure	Mus musculus (house mouse)	NRLPVELVLEWFIAPSSDVLMTQPLSLPVTPGQASISCRFQSIYN SRMTTLEWLGKPGQSPQLLIYQVSRFRSGPDRFSGSGSGTDFTLKSI FVAEADLVGYYCFQGHRTFTFGGGTKLEIK	Align len= 16 nt, Errors= 1, Identity= 93.75%, Similarity= 100.00% Query len= nt, pos= 1- 16 nt (fwd), Identity query= 93.75%, Nb gaps query= 0 Subject len= nt, pos= 43- 58 nt (fwd), Identity subj= 11.45%, Nb gaps subj= 0
82	Anti KC4 humanized monoclonal antibody and cells that express the antibody	USRE40535-0050	claim: 1		FVAEADLVGYYCFQGHRTFTFGGGTKLEIK	Align len= 16 nt, Errors= 1, Identity= 93.75%, Similarity= 100.00% Query len= nt, pos= 1- 16 nt (fwd), Identity query= 93.75%, Nb gaps query= 0 Subject len= nt, pos= 43- 58 nt (fwd), Identity subj= 11.45%, Nb gaps subj= 0
83	Use of modified antibodies with human milk fat globule specificity	US6315997-0095	disclosure		NRLPVELVLEWFIAPSSDVLMTQPLSLPVTPGQASISCRFQSIYN SRMTTLEWLGKPGQSPQLLIYQVSRFRSGPDRFSGSGSGTDFTLKSI FVAEADLVGYYCFQGHRTFTFGGGTKLEIK	Align len= 16 nt, Errors= 1, Identity= 93.75%, Similarity= 100.00% Query len= nt, pos= 1- 16 nt (fwd), Identity query= 93.75%, Nb gaps query= 0 Subject len= nt, pos= 43- 58 nt (fwd), Identity subj= 11.45%, Nb gaps subj= 0
	PEPTIDES AND ANTI-SENSE PEPTIDES WITH BROAD NEOPLASTIC SPECIFICITY.	EP0674710-0050	TDD		NRLPVELVLEWFIAPSSDVLMTQPLSLPVTPGQASISCRFQSIYN SRMTTLEWLGKPGQSPQLLIYQVSRFRSGPDRFSGSGSGTDFTLKSI FVAEADLVGYYCFQGHRTFTFGGGTKLEIK	Align len= 16 nt, Errors= 1, Identity= 93.75%, Similarity= 100.00% Query len= nt, pos= 1- 16 nt (fwd), Identity query= 93.75%, Nb gaps query= 0

View data from source patent of each sequence

GOPAT Proteins: Sample Sequence Chart								
	Title	Patent Number	Patent Assignee	Priority Date	International Class	Patent Sequence Location	Organism Species	Main Claim
79	Humanized antibodies that recognize difucosyl Lewis blood group antigens Y-6 and B-7-2	US5562903	SANDOZ LTD. BASEL, SWITZERLAND	1991-08-21	A61K 039/395 C07K 016/28	disclosure		1. A humanized monoclonal antibody that recognizes the difucosyl Lewis blood group antigens Y-6 and B-7-2 comprising a humanized light chain variable region, a human light chain constant region, a humanized heavy chain variable region and a human heavy chain constant region, wherein the humanized light chain variable region has the sequence: DIVMTQSPLS LPVTPQEPAS ISCRSGGIV HSNQNTYLEW YLQKPGQSPQ [CONT]
80	Antibody derivatives.	EP0528767	SANDOZ LTD.; SANDOZ-PATENT-OMB H; SANDOZ-ERFINDUNG EN VERWALTUNGSGESELLSCHAFT M.B.H.	1991-08-21	A61K 039/395 C07K 016/28	disclosure	Homo sapiens (human)	1. Human/mouse chimeric monoclonal antibodies recognizing the difucosyl Lewis blood group antigens Y-6 and B-7-2.
81	IL-13 binding agents	US7501121	WYETH MADISON, NJ	2004-06-17	A61K 039/395 C07K 016/24	disclosure	Mus musculus (house mouse)	1. A purified molecule comprising a heavy chain immunoglobulin variable domain sequence and a light chain immunoglobulin variable domain that binds to IL-13 with a K^S-D^S-D^S-of less than 10^S-SP^S-^S-M, wherein the heavy chain variable domain comprises the amino acid sequence of: (i) Q-(Y^S)-NT^S-K^S-D^S-T^S-Y^S-M^S-H (SEQ ID NO: 48), in CDR1, (ii) (WF^S-I^S-D^S-P^S-G^S-A)^S-H^S-D^S-N^S-K^S-Y^S-R^S-D^S-K^S-F^S-G^S [CONT]
82	Anti KC4 humanized monoclonal antibody and cells that express the antibody	USRE40535	IBC PHARMACEUTICALS, INC. MORRIS PLAINS, NJ		C07K 016/00 A61K 049/00 C12N 005/18 G01N 033/53	claim: 1		1. A8REISqb, modified chimeric&RREsq; ->-humanized anti KC-4 ->-antibody which selectively binds to the human KC-4 antigen, comprising (1) the ->-humanized ->-variable region of the light and heavy chains of an anti-KC-4 murine antibody and (2)

View Query Results for Each Sequence

GOPAT Proteins: Sample Sequence Chart

	Title	Seq. ID Number	Patent Sequence Location	Alignment	Query ID	Query Results
110	Monoclonal antibody 1A7 and use for the treatment of melanoma and small cell carcinoma	US7517967-0066	disclosure	Q: 1 RSSQIVHSGNNTYIQ 16 S: 175 RSSQIVHSGNNTYLE 190	CDR1	Align len= 16 nt, Errors= 1, Identity= 93.75%, Similarity= 100.00% Query len= nt, pos= 1- 16 nt (fwd), Identity query= 93.75%, Nb gaps query= 0 Subject len= nt, pos= 175- 190 nt (fwd), Identity subj= 5.70%, Nb gaps subj= 0
111	Monoclonal antibody 1A7 and use for the treatment of melanoma and small cell carcinoma	US6509016-0066	disclosure	Q: 1 RSSQIVHSGNNTYIQ 16 S: 175 RSSQIVHSGNNTYLE 190	CDR1	Align len= 16 nt, Errors= 1, Identity= 93.75%, Similarity= 100.00% Query len= nt, pos= 1- 16 nt (fwd), Identity query= 93.75%, Nb gaps query= 0 Subject len= nt, pos= 175- 190 nt (fwd), Identity subj= 5.70%, Nb gaps subj= 0
112	Polynucleotides related to monoclonal antibody 1A7 and use for the treatment of melanoma and small cell carcinoma	US5935821-0066	disclosure	Q: 1 RSSQIVHSGNNTYIQ 16 S: 175 RSSQIVHSGNNTYLE 190	CDR1	Align len= 16 nt, Errors= 1, Identity= 93.75%, Similarity= 100.00% Query len= nt, pos= 1- 16 nt (fwd), Identity query= 93.75%, Nb gaps query= 0 Subject len= nt, pos= 175- 190 nt (fwd), Identity subj= 5.70%, Nb gaps subj= 0
113	Anti-IGF-IR antibodies and uses thereof	US7241444-0065	claim: 10; 11; 12	Q: 1 KYSNELY 7 S: 55 KYSNELY 61	CDR2	Align len= 7 nt, Errors= 0, Identity= 100.00%, Similarity= 100.00% Query len= nt, pos= 1- 7 nt (fwd), Identity query= 100.00%, Nb gaps query= 0 Subject len= nt, pos= 55- 61 nt (fwd), Identity subj= 6.25%, Nb gaps subj= 0
114	Anti-IGF-IR antibodies and uses thereof	US7241444-0054	claim: 5	Q: 1 KYSNELY 7 S: 55 KYSNELY 61	CDR2	Align len= 7 nt, Errors= 0, Identity= 100.00%, Similarity= 100.00% Query len= nt, pos= 1- 7 nt (fwd), Identity query= 100.00%, Nb gaps query= 0 Subject len= nt, pos= 55- 61 nt (fwd), Identity subj= 6.25%, Nb gaps subj= 0

TIP: Select Alignment column
Change font to Courier New 8pt

Show a combination of these views

GOPAT Proteins: Sample Sequence Chart

	Title	Patent Family			Patent Assignee	Patent Sequence Location	Main Claim	Query ID	Percentage Identity	Align
		Patent	Kind	Date						
110	Monoclonal antibody 1A7 and use for the treatment of melanoma and small cell carcinoma	US7517967		20090414	UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION LEXINGTON, KY	disclosure	1. A monoclonal antibody 1A7 produced from hybridoma cell line deposited under ATCC Accession No. HB-11706.	CDR1	93.75	16
111	Monoclonal antibody 1A7 and use for the treatment of melanoma and small cell carcinoma	US6509016 CA2210158 WO9622373 AU5414996		20030121	THE BOARD OF TRUSTEES OF THE UNIVERSITY OF KENTUCKY	disclosure	1. A method of delaying recurrence of a G02-associated tumor in an individual, comprising administering to the individual an	CDR1	93.75	16
112	Polynucleotides related to monoclonal antibody 1A7 and use for the treatment of melanoma and small cell carcinoma	US5935821 CA2210158 WO9622373 AU5414996 US5612030 EP0807176 US5935821 US5977316 AU713331 AU713331D JP20025008651 US20020114398 US20050207148 JP381610382							93.75	16
	Anti-IGF-IR antibodies and uses thereof	US7241444 CA2473039 WO03059551 EP0824890		20070710	PIERRE FABRE MEDICAMENT, BOULOGNE-BILLANCOURT FR	claim 1	1. An isolated antibody or binding fragment thereof, comprising a light chain complementarity determining region (CDR)	CDR2	100.00	7

Sort Rows

Columns:

- Abstract
- Alignment
- Alignment Class
- Alignment Length
- Application
- Application Date
- Bits
- ECLA Class
- Errors
- Full Text Link
- International Class
- Main Claim
- Organism Species
- Patent Assignee
- Patent Date
- Patent Number
- Patent Sequence Location
- Percentage Identity Shorter
- Percentage Positive

Sort Order:

Percentage Identity

Inventors

Sort

Cancel

Help...

Alternate row shading when primary sort key changes

Customize the columns in your chart

GOPAT Proteins: Sample Sequence Chart

Title	Patent Family			Patent Assignee	Patent Sequence Location	Main Claim	Query ID	Percentage Identity	Align
	Patent	Kind	Date						
110	Monoclonal antibody 1A7 use for the treatment of melanoma and small cell carcinoma							93.75	16
111	Monoclonal antibody 1A7 use for the treatment of melanoma and small cell carcinoma							93.75	16
112	Polynucleotides related to monoclonal antibody 1A7 use for the treatment of melanoma and small cell carcinoma							93.75	16
	Anti-IGF-1R antibodies and uses thereof	US:7241444 CA:2473039 WO:03059951	2007/07/10	PIERRE FABRE MEDICAMENT, BOULOGNE-BILLANCOURT, FR	claim 1	1. An isolated antibody, or binding fragment thereof, comprising a light chain complementary determining region (CDR)	CDR2	100.00	7

Display Columns

- Molecule Tune
- Organism
- Patent A
- Inventor
- Patent F
- US Pat
- Applicat
- Abstract
- Main Cl
- Sequen
- Percent
- Alignme
- Querv R

21 columns.

Save Chart as Template

Database: USGENE

Title: Boston report template

OK Cancel Help

TIP: Templates are associated with a database
If you mostly combine data from multiple sources,
create the template from a combined chart.

Further customization

Records

- Record on Publisher Website
- Publisher Images
- Column Properties...
- Row Properties...
- Add Row
- Hide Row** Ctrl+H
- Highlight cells
- Highlight rows
- Cut
- Copy
- Paste
- Font...
- Quick format
- Help
- About...

Row Help

Add Column

Comments

TIP: Import transcripts without editing
Review and Hide Rows in your chart

rows in added columns
added columns are preserved
even when Combining or Updating



USGENE on STN – new in Version 3.3.18 (2/8/10)

- Currently supports GETBLAST fully
- Some support for GETSIM
- **TIP:** Recommended display formats
 - BIB ALIGN
 - BRIEF ALIGN

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Combine charts – Version 3.3

- **Combine** data from **different sources**
- **Combine** data from **different search strategies**
- **Combine** data **over time - update**

TIP: Update allows you to see changes between charts, such as where two queries don't match

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Identify Co

Version 3.3

Combined: Mousetraps 2		Common Family	Database
1	Safety disposable mouse tr	WO 2006036767	PatBase
2	Animal e.g. mouse, trap for w e.g. house, has saf attached to top por attachment and ma bow, where safety by user with use of	WO 2006036767	Derwent World Patents Index
3	Safety disposable mouse tr	WO 2006036767	MicroPatent

TIP
wi

Image	Patent Family			Source: U
	Patent	Kind	Date	
	US 2006064922	A	2006-03-30	Source: U designed spring-loa arm to pre bow of a s safety dis lever scre other com trap elem
	US 2007151140	A	2007-07-05	
	WO 06036767	A2	2006-04-06	
	WO 06036767	A3	2006-09-14	
	US 2006064922	A1	20060330	US20060 NOVELTY above a c of a screw attached t attachme (12). The with the u attachme that the le path of the
	US 2006064922	A1	20060406	
	US 2006064922	A1	2006-03-30	This prod disposab a safety a discharge mouse tra trap consi safety arm spring-loa [CONT.]
	US 2006064922	A1	2006-03-30	

Common Family
from the family.

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Deliver results – Version 3.3

- Export results as HTML, Word, Excel ...
- Automatically generate links to full text sources

US 6586623 2003-07-01 Tsukamoto; C07C 321/06 This invention relates to new
CA 2496333 AA Takashi C07C 323/04 compounds, pharmaceutical
and diagnostic kits
h compounds, and
ng such compounds for
ADase enzyme activity,
ses where NAALADase
ed, effecting neuronal
ng TGF-beta. activity,
genesis, and treating
rmalities, diabetic
in, compulsive
ate diseases, **ophilin
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Patent Full-text Link Options

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

Authority	Link to:	Buttons
<input checked="" type="checkbox"/> US	USPTO	Configure
<input checked="" type="checkbox"/> EP	esp@cenet	Configure
<input checked="" type="checkbox"/> WO	PatentOrder	Config OK
<input checked="" type="checkbox"/> FR,GB	Delphion esp@cenet Micropatent PatentOrder	Configure

OK Cancel Help

US 6593362 2003-07-1
EP 1401791 A2
US 6593362
US 23055009 A1

relates to
compositions
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nitochondrial energy
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growth, in treating
ilarial and helminic
in treating and
preventing infections with the human
immunodeficiency virus.

53A1 My Computer

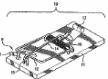

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Future developments for sequence data

- Additional databases
 - Literature databases on GenomeQuest
 - Additional databases on STN (DGENE, etc)
 - In-house BLAST systems
- Common sequence identification across dbs (?)

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Version 4.0 – Reference Rows (HTML)

Title	Common Family	Image	Patent Family			Abstract	Claims
			Patent	Kind	Date		
1. Animal e.g. mouse, trap for use in e.g. house, has safety arm attached to top portion of screw attachment and maneuvered over bow, where safety arm is rotated by user with use of lever.	1.1 PatBase 32761335		US 2006064922	A	2006-03-30	US2006064922 A UPAB: 20060410 NOVELTY: The trap has a lever (4) located above a collar and attached to a top portion of a screw attachment. A safety arm (5) is attached to the top portion of the screw attachment and is maneuvered over a bow (12). The safety arm is rotated by a user with the use of the lever. The screw attachment is anchored to the base such that the lever is located outside a swiveling path of the bow. [CONT]	1. An animal trap comprising: (a) a base; (b) a screw attachment anchored to the base; (c) a lever located on the screw attachment; (d) a safety arm located on the screw attachment and maneuverable over a bow; and (e) said bow connected to a coil spring and attached to the base in a manner that allows the bow to be held in a coiled position with the use of a locking bar attached to one end of the [CONT]
	1.2 Patents Index 2006-230770		US 2007151140	A	2007-07-05		
	1.3 MicroPatent US20080064922A1		WO 06036767	A2	2006-04-06		
	1.4 MicroPatent WO2006036767A2		WO 06036767	A3	2006-09-14		
	1.5 MicroPatent WO2006036767A3						
2. Rat or mouse trap comprising a box with a swiveling grille V-shaped point of the V faces into the box so that an animal trying to get out of the trap pushes wires at its base against the...	1.2 Derwent World Patents Index 2006-125704		WO 2006010279	A1	20060202	WO2006010279 A UPAB: 20060224 NOVELTY: The rat or mouse trap comprises a box (1) whose entry is blocked by a swiveling grille (2). This is bent into a V-shape and the point of the V faces into the box so that an animal trying to get out of the trap pushes the wires (2) at its base	1.3 MicroPatent
	1.1 PatBase		1.1 PatBase	1.2 Derwent World Patents	1.3 MicroPatent		

Reference Row

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