



Technology Intelligence From Chemical Information In Patent Databases

Bob Stewart

Senior Manager, Chemical & Specialty Information

Thomson Scientific

Corporate Markets

bob.stewart@thomson.com

Agenda

- Information vs. Intelligence
- Converting Information to Intelligence
 - Commonly available software tools
 - Value-add tools provided by commercial search engines
 - Text-mining & Data-mining tools
- Conclusions

Information vs. Intelligence

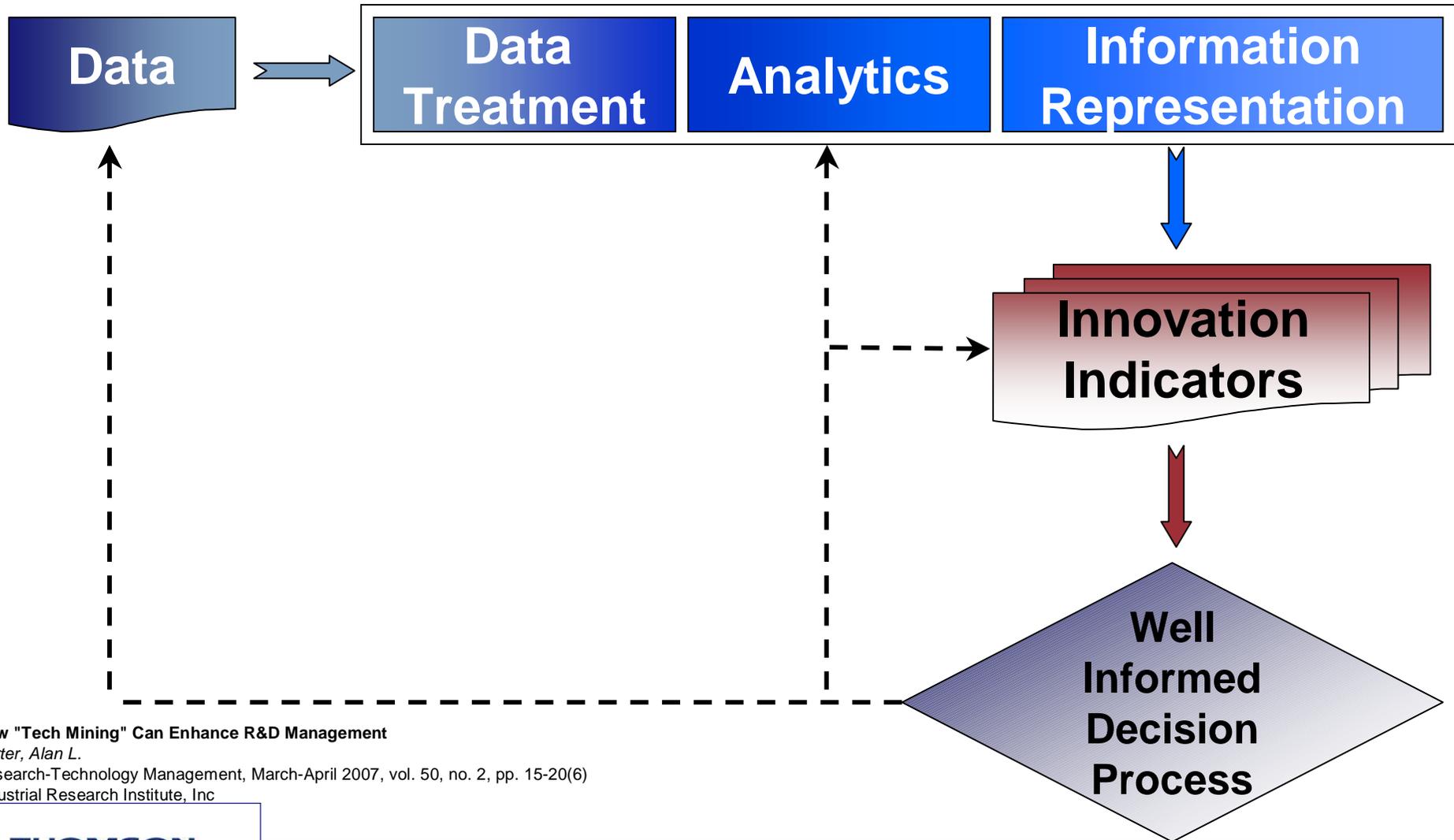
Information vs. Intelligence

- Who
 - Inventor
 - Patent Assignee
- What
 - Abstract
 - IPC
- When
 - Application Date
 - Publication Date
- Where
 - Country

Information vs. **Intelligence**

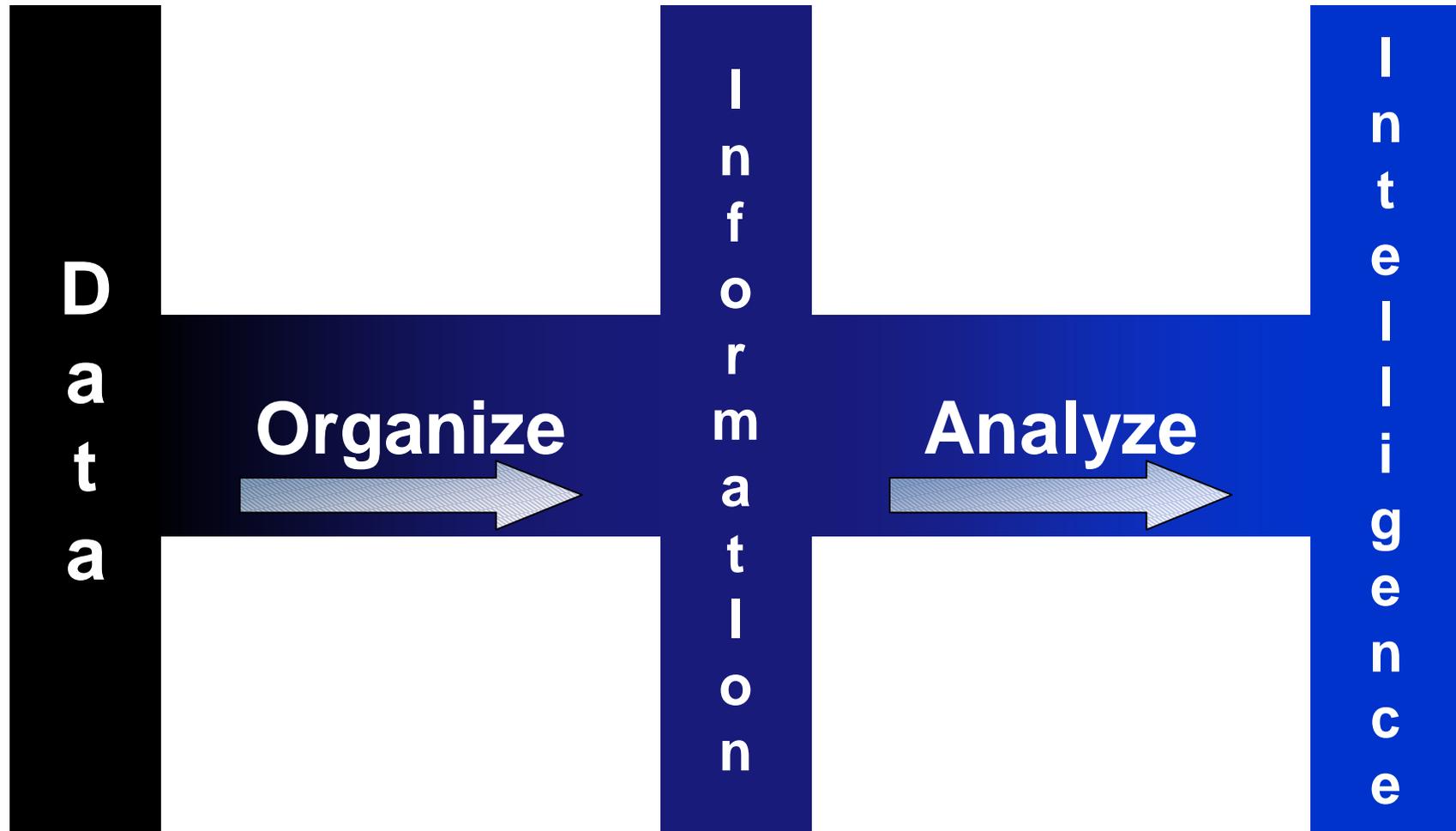
- How does it work?
- Why are they doing it?
- What does it mean?
- How does it fit into the “big picture?”

Tech Mining Supply Chain



How "Tech Mining" Can Enhance R&D Management
 Porter, Alan L.
 Research-Technology Management, March-April 2007, vol. 50, no. 2, pp. 15-20(6)
 Industrial Research Institute, Inc

Information vs. Intelligence



Organize – Readily Available Tools

- Simple Tools available from commercial search services
 - Dialog RANK
- Microsoft Excel
 - Create charts and summaries

Organize – Readily Available Tools

- Questions answered (Information Generated)
 - Top companies with patents in a technology (IPC, subject, chemical)
 - Top inventors at an organization
 - Technology trends

Organize Using RANK

DWPI

SHAPE()MEMORY
OR
SUPERELASTIC
OR SUPER()ELASTIC

2005:2007

Result = 3051 records

RANK PANAME

Rank fields found in 3051 records. 3937 unique terms

Select	Items Rank	Term
<input type="checkbox"/>	125	BOSTON SCI LTD
<input type="checkbox"/>	91	SCIMED LIFE SYSTEMS INC
<input type="checkbox"/>	46	BROWNE A L
<input type="checkbox"/>	46	GENERAL MOTORS CORP
<input type="checkbox"/>	44	CRF SCPA
<input type="checkbox"/>	43	MEDTRONIC INC
<input type="checkbox"/>	38	JOHNSON N L
<input type="checkbox"/>	17	HYUNDAI MOTOR CO LTD

Details

Title: Format: Items:

Copy Results to:

-
-
-

Organize Using RANK

DWPI

SHAPE()MEMORY
OR
SUPERELASTIC
OR SUPER()ELASTIC

2005:2007

Result = 3051 records

RANK PANAME

Rank fields found in 3051 records. 3937 unique terms

Select	Items	Rank	Term
<input type="checkbox"/>	125		BOSTON SCI LTD
<input type="checkbox"/>	91		SCIMED LIFE SYSTEMS INC
<input type="checkbox"/>	46		BROWNE A L
<input type="checkbox"/>	46		GENERAL MOTORS CORP
<input type="checkbox"/>	44		CRF SCPA
<input type="checkbox"/>	43		MEDTRONIC INC
<input type="checkbox"/>	38		JOHNSON N L
<input type="checkbox"/>	36		CORDIS CORP
<input type="checkbox"/>	34		MATSUSHITA DENKI SANGYO KK
<input type="checkbox"/>	29		COOK INC
<input type="checkbox"/>	25		SDGI HOLDINGS INC
<input type="checkbox"/>	23		ADVANCED CARDIOVASCULAR SYSTEM
<input type="checkbox"/>	22		MNEMOSCIENCE GMBH
<input type="checkbox"/>	18		DOKURITSU GYOSEI HOJIN SANGYO GIJUTSU SO
<input type="checkbox"/>	18		JOHNSON & JOHNSON
<input type="checkbox"/>	18		TOKIN CORP
<input type="checkbox"/>	17		HYUNDAI MOTOR CO LTD

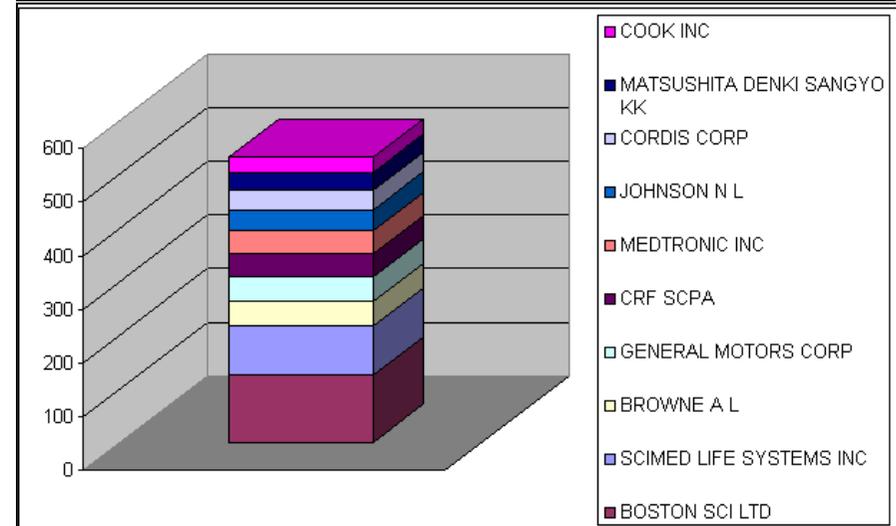
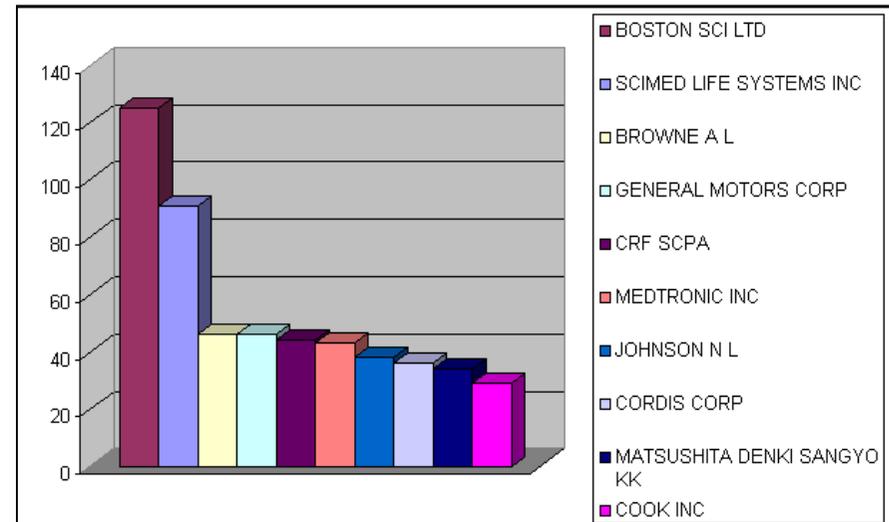
Details Copy Results to:

Title: Format: Items:

Excel File

Organize Using RANK

A	B	C
1	Rank fields found in 3051 records. 3937 unique terms	
2	Items Ranked	Term
3	125	BOSTON SCI LTD
4	91	SCIMED LIFE SYSTEMS INC
5	46	BROWNE A L
6	46	GENERAL MOTORS CORP
7	44	CRF SCPA
8	43	MEDTRONIC INC
9	38	JOHNSON N L
10	36	CORDIS CORP
11	34	MATSUSHITA DENKI SANGYO KK
12	29	COOK INC
13	25	SDGI HOLDINGS INC
14	23	ADVANCED CARDIOVASCULAR SYSTEM
15	22	MNEMOSCIENCE GMBH
16	18	DOKURITSU GYOSEI HOJIN SANGYO
17	18	GIJUTSU SO
18	18	JOHNSON & JOHNSON
18	18	TOKIN CORP
19	17	HYUNDAI MOTOR CO LTD
20	17	SONY CORP
21	16	GYUNTER V EH
22	15	BARVOSA-CARTER W
23	14	BARD INC C O



Advantages of Online Tools

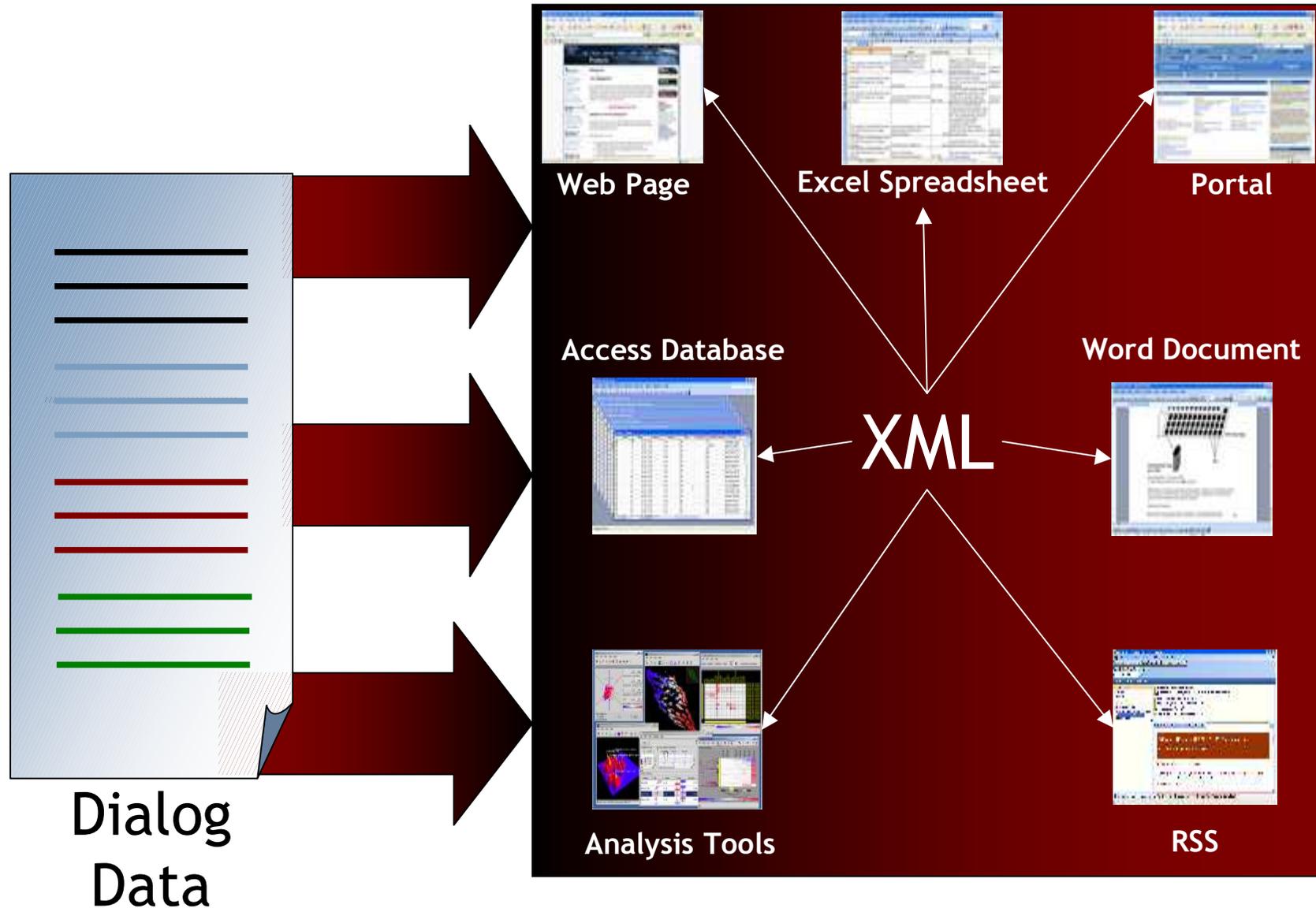
- No additional software
 - Relatively easy to use
 - Inexpensive
 - Usually a few cents (or less) per document
- RANKed

Advantages of Online Tools

- Results can be easily imported into more sophisticated tools
 - Microsoft Excel
 - Microsoft Access

XML

- eXtensible Markup Language
- Collect information once and reuse it in a variety of ways



Download Data as XML

The screenshot shows the DialogLink 5 software interface. The main window displays a list of materials with their IDs and names:

ID	Name
845895	SHAPE
609586	MEMORY
9889	SHAPE(W)MEMORY
886	SUPERELASTIC
52330	SUPER
298873	ELASTIC
745	SUPER(W)ELASTIC
S1 10831	S SHAPE()MEMORY OR SUPERELASTIC OR SUPER()ELASTIC

Below the list, there are several commands and their outputs:

```
? s s1/2005:2007
10831 s1
2643986 PY:
S2 2541 S
? xml s2/full/all
```

The command `xml s2/full/all` is highlighted with a red box. The interface also includes a menu bar (File, Edit, View, Session, Configuration, Window, Help), a toolbar with various icons, and a right-hand sidebar with sections for Help and Information, Set Links, and Session Navigator. The status bar at the bottom shows connection details: Connected 5:40, Bob Stewart - Connect Time - Dialog - 302786 / - , Finished: 10:845.

Convert XML to Microsoft Excel

The screenshot shows the DialogLink 5 software interface. The main window displays a command window with the following text:

```

? s SHAPE()MEMORY OR SUPERELASTIC OR SUPER()ELASTIC
  845895 SHAPE
  609586 MEMORY
  9889 SHAPE(W)MEMORY
  886 SUPERELASTIC
  52330 SUPER
  298873 ELASTIC
  745 SUPER(W)ELASTIC
S1 10831 S SHAPE()MEMORY OR SUPERELASTIC OR SUPER()ELASTIC

? s s1/2005:2007
  10831 s1
  2643986 PY=2005 : PY=2007
S2 2541 S s1/2005:2007

? xml s2/full/all
    
```

An 'Excel Reports' dialog box is overlaid on the interface. It contains the following text and buttons:

Excel Reports

This feature creates a Microsoft® Excel report from Dialog data downloaded in XML.

Buttons: **Create Report** (highlighted), Create Template, Edit Template, Get Templates.

At the bottom of the dialog box, there is a 'Get Templates' button.

The status bar at the bottom of the software window shows: Connected 11:37 | Bob Stewart - Connect Time - Dialog - 302786 / - | Finished: 10.845

Information Derived from XML Output

A	B	C	D	E	F	G	H	I
1	Title	Patent Assignee	Inventor	Patent Number (Basic)	IPC8 (Class, Class Level)	Pub. No.	Pub. Date	Pub. Year
1	Poly(3-hydroxyalkanoates) block copolymer having orientation-induced rubber-elasticity and temperature-sensitive shape memory effects, useful e.g. as medical and industrial material, comprises 3-hydroxybutyrate and 3-hydroxyvalerate block	LG CHEM LTD	CHUNG C KIM Y B RHEE Y H YOON J	WO 2007004777 A1	C08F-0293/00 A C08F-0293/00 C			
2	Surgical stapler for closing surgical incision includes an elongate shaft, e.g. catheter with a working lumen disposed with a staple formed from a shape memory material	WILSON COOK MEDICAL INC	SURTI V C	US 20060282118 A1	A61B-0017/00 A A61B-0017/064 A A61B-0017/00 A A61B-0017/08 A A61B-0017/08 A A61B-0017/03 C A61B-0017/08 C			
3	Variable geometry turbo-charger for vehicle, where nozzle vane has one side with shape memory alloys (SMA) and other side with piezoelectric film to control flux of exhaust gas by controlling	HYUNDAI MOTOR CO LTD	PARK J S	KR 20060712282 A	F02B-0037/12 A F02B-0037/12 C			
4	Column structure reinforcing system using a press unit manufactured of shape memory alloy and a reinforcing steel plate for reinforcing a column structure with a	AINI S H	AINI S H	KR 622390 B1	E01B-0022/00 A E01B-0022/00 C			
5	Non-contact integrated circuit tag strip for attaching to goods e.g. electrical appliance, has non-contact IC tag fixed to holder portion made of shape memory polymer	MITSUBISHI JUKOGYO KK	SAITO I TASARA Y	JP 2006431643 A	B42B-0019/10 A G06K-0019/00 A G06K-0019/02 A G06K-0019/07 A G09F-0003/00 A G09F-0003/14 A G09F-0003/00 C			
6	Shape memory property resin for producing molded product, has thermoreversible cross-linked structure having specific cleavage temperature and deformation temperature	NEC CORP	IJI M INOUE K SHIMURA M	JP 2006942297 A	C08G-0063/91 A C08G-0063/00 C			

1	Inventor	First Named Assignee	Derwent Acc. No.	Patent: (No Kind)	Country Code	Publication Date (Derwent Format)	Publication Date (Excel Format)	Publication Year	Appl
494	DESSLINK P A	MEMORY MEDICAL SYSTEMS INC	2005-161327	US 7037321 B2	US B2	20060502	5/22/2006	2006	US 20049235
495	DESSLINK P A	MEMORY MEDICAL SYSTEMS INC	2005-161327	US 2005022745 A1	US A1	20050203	2/3/2005	2005	US 20049235
496	BEYER A	MMNOSCIENCE GMBH	2005-195650	JP 2007500143 W	JP W	20070111	1/11/2007	2007	JP 20065214
497	BEYER A	MMNOSCIENCE GMBH	2005-172734	JP 2007500142 W	JP W	20070111	1/11/2007	2007	JP 20065214
498	BEYER A	MMNOSCIENCE GMBH	2005-195650	EP 1651313 A1	EP A1	20060503	5/3/2006	2006	EP 20047410
499	BEYER A	MMNOSCIENCE GMBH	2005-195650	CN 1852936 A	CN A	20061025	10/25/2006	2006	CN 2004800C
500	BEYER A	MMNOSCIENCE GMBH	2005-172734	EP 1648393 A1	EP A1	20060426	4/26/2006	2006	EP 20047410
501	BEYER A	MMNOSCIENCE GMBH	2005-172734	CN 1873497 A	CN A	20060906	9/6/2006	2006	CN 2004800C
502	BEYER A	MMNOSCIENCE GMBH	2005-195650	WO 2005012389 A1	WO A1	20050710	7/10/2005	2005	WO 2004EP7
503	BEYER A	MMNOSCIENCE GMBH	2005-195650	DE 10334823 A1	DE A1	20050224	2/24/2005	2005	DE 10334823
504	BEYER A	MMNOSCIENCE GMBH	2005-172734	WO 2005011626 A1	WO A1	20050210	2/10/2005	2005	WO 2004EP7
505	BEYER A	MMNOSCIENCE GMBH	2005-172734	DE 10334788 A1	DE A1	20050224	2/24/2005	2005	DE 10334788
506	BICEK A	BICEK A D	2001-040743	DE 60032122 E	DE E	20070111	1/11/2007	2007	WO 2000US7
507	BICEK A	BICEK A D	2001-040743	EP 1164971 B1	EP B1	20061129	11/29/2006	2006	EP 20009166
508	BICEK A	BICEK A D	2001-040743	US 6579297 B2	US B2	20030617	6/17/2003	2003	US 2001818E
509	BICEK A	BICEK A D	2001-040743	JP 2003524463 W	JP W	20030819	8/19/2003	2003	JP 20006089
510	BICEK A	BICEK A D	2001-040743	EP 1164971 A1	EP A1	20020102	1/22/2002	2002	EP 20009166
511	BICEK A	BICEK A D	2001-040743	US 6264888 B1	US B1	20010327	3/27/2001	2001	US 19992834
512	BICEK A	BICEK A D	2001-040743	US 20010012944 A1	US A1	20010809	8/9/2001	2001	US 2001818E
513	BICEK A	BICEK A D	2001-040743	WO 2000059404 A1	WO A1	20001012	10/12/2000	2000	WO 2000US7
514	BICEK A D	BICEK A D	2001-040743	DE 60032122 E	DE E	20070111	1/11/2007	2007	WO 2000US7
515	BICEK A D	BICEK A D	2001-040743	EP 1164971 B1	EP B1	20061129	11/29/2006	2006	EP 20009166
516	BICEK A D	BICEK A D	2001-040743	US 6579297 B2	US B2	20030617	6/17/2003	2003	US 2001818E
517	BICEK A D	BICEK A D	2001-040743	JP 2003524463 W	JP W	20030819	8/19/2003	2003	JP 20006089
518	BICEK A D	BICEK A D	2001-040743	EP 1164971 A1	EP A1	20020102	1/22/2002	2002	EP 20009166
519	BICEK A D	BICEK A D	2001-040743	US 6264888 B1	US B1	20010327	3/27/2001	2001	US 19992834
520	BICEK A D	BICEK A D	2001-040743	US 20010012944 A1	US A1	20010809	8/9/2001	2001	US 2001818E
521	BICEK A D	BICEK A D	2001-040743	WO 2000059404 A1	WO A1	20001012	10/12/2000	2000	WO 2000US7
522	BICEK A D	BICEK A D	2001-040743	DE 60032122 E	DE E	20070111	1/11/2007	2007	WO 2000US7
523	BICEK A D	BICEK A D	2001-040743	EP 1164971 B1	EP B1	20061129	11/29/2006	2006	EP 20009166
524	BICEK A D	BICEK A D	2001-040743	US 6579297 B2	US B2	20030617	6/17/2003	2003	US 2001818E
525	BICEK A D	BICEK A D	2001-040743	JP 2003524463 W	JP W	20030819	8/19/2003	2003	JP 20006089
526	BICEK A D	BICEK A D	2001-040743	EP 1164971 A1	EP A1	20020102	1/22/2002	2002	EP 20009166
527	BICEK A D	BICEK A D	2001-040743	US 6264888 B1	US B1	20010327	3/27/2001	2001	US 19992834

A	B	C	D	E	F	
1	Patent Assignee	Application Year	Derwent Acc. No.	Patent: (No Kind)	Country Code	Publication Date (Derwent Format)
1	3F THERAPEUTICS INC	2003	2004-747054	US 2004026363 A1	US A1	20041021
2	3F THERAPEUTICS INC	2004	2004-747054	WO 2004036368 A2	WO A2	20041104
3	3F THERAPEUTICS INC	2004	2004-747054	EP 1630404 A2	EP A2	20060201
4	3F THERAPEUTICS INC	2003	2004-747054	US 7158553 B2	US B2	20070109
5	3F THERAPEUTICS INC	2003	2005-212392	US 2005014859 A1	US A1	20050303
6	3F THERAPEUTICS INC	2004	2005-212392	WO 2005010683 A2	WO A2	20050510
7	3F THERAPEUTICS INC	2004	2005-212392	EP 1663070 A2	EP A2	20060607
8	3M INNOVATIVE PROPERTIES CO	1998	1998-419338	WO 1998035201 A1	WO A1	19980715
9	3M INNOVATIVE PROPERTIES CO	1998	1998-419338	JP 11269704 A	JP A	19990803
10	3M INNOVATIVE PROPERTIES CO	1998	1998-419338	AU 199803636 A	AU A	19980726
11	3M INNOVATIVE PROPERTIES CO	1998	1998-419338	EP 1046693 A1	EP A1	20010125
12	3M INNOVATIVE PROPERTIES CO	2000	1998-419338	US 6630718 B1	US B1	20031007
13	3M INNOVATIVE PROPERTIES CO	1998	1998-419338	EP 1046693 B1	EP B1	20060308
14	3M INNOVATIVE PROPERTIES CO	1998	1998-419338	DE 6883292 B1	DE F	20060604
15	3M INNOVATIVE PROPERTIES CO	1998	1998-419338	DE 6883292 T2	DE T2	20061102
16	3M INNOVATIVE PROPERTIES CO	2004	2006-075239	WO 2004113464 A1	WO A1	20041229
17	3M INNOVATIVE PROPERTIES CO	2003	2006-075239	JP 2005002269 A	JP A	20050106
18	3M INNOVATIVE PROPERTIES CO	2004	2006-075239	EP 1633828 A1	EP A1	20060316
19	3M INNOVATIVE PROPERTIES CO	2004	2006-075239	EP 2005018076 A1	EP A1	20060824
20	3M INNOVATIVE PROPERTIES CO	2004	2006-075239	JP 200552001 W	JP W	20061229
21	AAASE J H	2004	2006-443546	US 2006012120 A1	US A1	20050609
22	AAASE J H	2004	2006-443546	US 2005044 B2	US B2	20060613
23	AAASE J H	2004	2006-443546	US 2005016945 A1	US A1	20050915
24	ABB PATENT GMBH	2004	2006-365948	DE 102004055279 A1	DE A1	20060524
25	ABB PATENT GMBH	2004	2006-365950	DE 102004055282 A1	DE A1	20060524
26	ABB PATENT GMBH	2005	2006-414465	WO 2005056336 A1	WO A1	20060601
27	ABB PATENT GMBH	2004	2006-414465	DE 102004056270 A1	DE A1	20060601
28	ABB PATENT GMBH	2003	2006-207634	JP 2005365476 A1	JP A	20060317
29	ABI KK	2003	2006-176176	JP 2005046880 A1	JP A1	20060224
30	ABRAMS-FUCHS K	2005	2006-501418	US 2006019080 A1	US A1	20060901
31	ABRAMS-FUCHS K	2004	2006-501418	DE 102004016207 B3	DE B3	20060902
32	ABRAMS R M	1992	1994-278446	US 5341818 A	US A	19940830
33	ABRAMS R M	1994	1994-278446	WO 1995018800 A2	WO A2	19950727
34	ABRAMS R M	1994	1994-278446	WO 1995018800 A3	WO A3	19950908
35	ABRAMS R M	1994	1994-278446	EP 732921 A1	EP A1	19961300
36	ABRAMS R M	1994	1994-278446	JP 8508538 W	JP W	19970802
37	ABRAMS R M	1994	1994-278446	EP 732921 B1	EP B1	20040331
38	ABRAMS R M	1994	1994-278446	DE 69433880 B1	DE F	20040506
39	ABRAMS R M	1994	1994-278446	EP 1428071 A2	EP A2	20040608
40	ABRAMS R M	1994	1994-278446	JP 3728001 B2	JP B2	20051214
41	ABRAMS R M	2005	2006-496478	US 2006014373 A1	US A1	20060630
42	ADAMS T M	2005	2006-587112	US 2006016235 A1	US A1	20060727

WO2007004777

Poly(3-hydroxyalkanoates) block copolymer having orientation-induced rubber-elasticity and temperature-sensitive shape memory effects, useful e.g. as medical and industrial material, comprises 3-hydroxybutyrate and 3-hydroxyvalerate block

DIALOG(R)File 351 Derwent WPI

(c) 2007 The Thomson Corporation. All rights reserved

Dialog Accession Number: 0015460276

Derwent Accession Number: 2007-176505/200711

Patent Assignee(s): LG CHEM LTD (GLDS)

Inventor(s): CHUNG C, KIM Y B, RHEE Y H, YOON J

Number of Countries: 1 Number of Patents: 111

Patent Family:

Patent No	Kind	Date	Applicant No	Kind	Date	Week
WO 2007004777	A1	20070111	WO 2005KR4439	A	20051222	200717 B

Priority Applications (No Type Date): KR 200559907 A 20050704

Patent Details:

Patent No	Kind	Lang	Pg	Drawings	Filing Notes
WO 2007004777	A1	EN	31	4	
National Designated States, Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY NZ NA NG NI NO NZ OM PG PH PL PT RO RU SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VV VN YU ZA ZM ZW				
Regional Designated States, Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				

Organized by Inventor

	A	B	C	D	E	F	G	H	
	Inventor	First Named Assignee			Derwent Acc. No.	on Date Format)	Publication Date (Excel Format)	Publication Year	Appl
494						0502	5/2/2006	2006	US 20049235
495	BESSELINK P A	MEMORY MEDICAL SYSTEMS INC			2005-161327	0203	2/3/2005	2005	US 20049235
496	BESSELINK P A	MEMORY MEDICAL SYSTEMS INC			2005-161327	0111	1/11/2007	2007	JP 20065214
497	BESSELINK P A	MEMORY MEDICAL SYSTEMS INC			2005-161327	0111	1/11/2007	2007	JP 20065214
498	BEYER A	MNEMOSCIENCE GMBH			2005-195650	0503	5/3/2006	2006	EP 20047410
499	BEYER A	MNEMOSCIENCE GMBH			2005-195650	025	10/25/2006	2006	CN 20048007
500	BEYER A	MNEMOSCIENCE GMBH			2005-172734	0426	4/26/2006	2006	EP 20047410
501	BEYER A	MNEMOSCIENCE GMBH			2005-195650	0906	9/6/2006	2006	CN 20048007
502	BEYER A	MNEMOSCIENCE GMBH			2005-195650	0210	2/10/2005	2005	WO 2004EP7
503	BEYER A	MNEMOSCIENCE GMBH			2005-195650	0224	2/24/2005	2005	DE 10334823
504	BEYER A	MNEMOSCIENCE GMBH			2005-172734	0210	2/10/2005	2005	WO 2004EP7
505	BEYER A	MNEMOSCIENCE GMBH			2005-172734	0224	2/24/2005	2005	DE 10334788
506	BEYER A	MNEMOSCIENCE GMBH			2005-172734	0111	1/11/2007	2007	WO 2000US7
507	BEYER A	MNEMOSCIENCE GMBH			2005-195650	0129	11/29/2006	2006	EP 20009166
508	BEYER A	MNEMOSCIENCE GMBH			2005-195650	0617	6/17/2003	2003	US 20018182
509	BEYER A	MNEMOSCIENCE GMBH			2005-195650	0819	8/19/2003	2003	JP 20006089
510	BEYER A	MNEMOSCIENCE GMBH			2005-172734	0102	1/2/2002	2002	EP 20009166
511	BEYER A	MNEMOSCIENCE GMBH			2005-172734	0327	3/27/2001	2001	US 19992834
512	BEYER A	MNEMOSCIENCE GMBH			2005-172734	0809	8/9/2001	2001	US 20018182
513	BICEK A	BICEK A D			2001-040743	0012	10/12/2000	2000	WO 2000US7
514						0111	1/11/2007	2007	WO 2000US7
515	BICEK A D	BICEK A D	2001-040743	EP 1164971 B1	EP B1	20061129	11/29/2006	2006	EP 20009166
516	BICEK A D	BICEK A D	2001-040743	US 6579297 B2	US B2	20030617	6/17/2003	2003	US 20018182
517	BICEK A D	BICEK A D	2001-040743	JP 2003524463 W	JP W	20030819	8/19/2003	2003	JP 20006089
518	BICEK A D	BICEK A D	2001-040743	EP 1164971 A1	EP A1	20020102	1/2/2002	2002	EP 20009166
519	BICEK A D	BICEK A D	2001-040743	US 6206888 B1	US B1	20010327	3/27/2001	2001	US 19992834
520	BICEK A D	BICEK A D	2001-040743	US 20010012944 A1	US A1	20010809	8/9/2001	2001	US 20018182
521	BICEK A D	BICEK A D	2001-040743	WO 2000059404 A1	WO A1	20001012	10/12/2000	2000	WO 2000US7
522	BICEK D	BICEK A D	2001-040743	DE 60032122 E	DE E	20070111	1/11/2007	2007	WO 2000US7
523	BICEK D	BICEK A D	2001-040743	EP 1164971 B1	EP B1	20061129	11/29/2006	2006	EP 20009166
524	BICEK D	BICEK A D	2001-040743	US 6579297 B2	US B2	20030617	6/17/2003	2003	US 20018182
525	BICEK D	BICEK A D	2001-040743	JP 2003524463 W	JP W	20030819	8/19/2003	2003	JP 20006089
526	BICEK D	BICEK A D	2001-040743	EP 1164971 A1	EP A1	20020102	1/2/2002	2002	EP 20009166
527	BICEK D	BICEK A D	2001-040743	US 6206888 B1	US B1	20010327	3/27/2001	2001	US 19992834

Organized by Assignee

	A	B	C	D	E	F
	Patent Assignee		Application Year	Derwent Acc. No.	Patent: (No Kind)	
1						
2		3F THERAPEUTICS INC	2003	2004-747054	US 20040206363 A1	
3		3F THERAPEUTICS INC	2004	2004-747054	WO 2004093638 A2	
4		3F THERAPEUTICS INC	2004	2004-747054	EP 1620040 A2	
5		3F THERAPEUTICS INC	2003	2004-747054	US 7159593 B2	
6		3F THERAPEUTICS INC	2003	2005-212399	US 20050049692 A1	
7		3F THERAPEUTICS INC	2004	2005-212399	WO 2005021063 A2	
8		3F THERAPEUTICS INC	2004	2005-212399	EP 1663070 A2	
9		3M INNOVATIVE PROPERTIES CO	1998	1999-419338	WO 1999035201 A1	
10		3M INNOVATIVE PROPERTIES CO	1998	1999-419338	JP 11209704 A	
11		3M INNOVATIVE PROPERTIES CO	1998	1999-419338	AU 199920236 A	
12		3M INNOVATIVE PROPERTIES CO	1998	1999-419338	EP 1045888 A1	
13		3M INNOVATIVE PROPERTIES CO	2000	1999-419338	US 6630218 B1	
14		3M INNOVATIVE PROPERTIES CO	1998	1999-419338	EP 1045888 B1	
15		3M INNOVATIVE PROPERTIES CO	1998	1999-419338	DE 69833799 E	
16		3M INNOVATIVE PROPERTIES CO	1998	1999-419338	DE 69833799 T2	
17		3M INNOVATIVE PROPERTIES CO	2004	2005-075239	WO 2004113464 A1	
18		3M INNOVATIVE PROPERTIES CO	2003	2005-075239	JP 2005002269 A	
19		3M INNOVATIVE PROPERTIES CO	2004	2005-075239	EP 1633828 A1	
20		3M INNOVATIVE PROPERTIES CO	2005	2005-075239	US 20060188706 A1	
21		3M INNOVATIVE PROPERTIES CO	2004	2005-075239	JP 2006529001 W	
22						
23		ABRAMS R M	1992	1994-278446	US 5341818 A	US A
24		ABRAMS R M	1994	1994-278446	WO 1995019800 A2	WO A2
25		ABRAMS R M	1994	1994-278446	WO 1995019800 A3	WO A3
26		ABRAMS R M	1994	1994-278446	EP 739221 A1	EP A1
27		ABRAMS R M	1994	1994-278446	JP 9508538 W	JP W
28		ABRAMS R M	1994	1994-278446	EP 739221 B1	EP B1
29		ABRAMS R M	1994	1994-278446	DE 69433668 E	DE E
30		ABRAMS R M	1994	1994-278446	EP 1426071 A2	EP A2
31		ABRAMS R M	1994	1994-278446	JP 3725900 B2	JP B2
32		ABRAMS R M	2005	2005-496478	US 20050143773 A1	US A1
33		ABRAMS R M	2005	2005-496478	US 20050143773 A1	US A1

The 'Big Picture'

	B	C	D	E	H	
1	Title		Patent Assignee		Inventor	Patent Num
2	Poly(3-hydroxyalkanoates) block copolymer having orientation-induced rubber-elasticity and temperature-sensitive shape memory effects, useful e.g. as medical and industrial material, comprises 3-hydroxybutyrate and 3-hydroxyvalerate block		LG CHEM LTD		CHUNG C KIM Y B RHEE Y H YOON J	WO 2007004777
3	Surgical stapler for closing surgical incision includes an elongate shaft, e.g. catheter with a working lumen disposed with a staple formed from a shape memory material		WILSON COOK MEDICAL INC		SURTI V C	US 20060282118
4	Variable geometry turbo-charger for vehicle, where nozzle vane has one side with shape memory alloys (SMA) and other side with piezoelectric film to control flux of exhaust gas by controlling		HYUNDAI MOTOR CO LTD		PARK J S	KR 2006071282
5	Shape memory property resin for producing molded product, has thermoreversible cross-linked structure having specific cleavage temperature and deformation temperature during primary and secondary moldings		NEC CORP	IJI M INOUE K SHIMURA M	JP 2006342297 A	C08G-0063/91 A C08G-0063/00 C
6	Ferromagnetic shape memory alloy for magnetic field drive element, comprises manganese, indium, tin and/or antimony.		JAPAN SCI & TECHNOLOGY AGENCY	ISHIDA K KAINUMA R KANOMATA T	WO 2007001009 A1	C22C-0019/03 A C22F-0001/00 A C22F-0001/10 A

Patent Details in Microsoft Word

WO2007004777

Poly(3-hydroxyalkanoates) block copolymer having orientation-induced rubber-elasticity and temperature-sensitive shape memory effects, useful e.g. as medical and industrial material, comprises 3-hydroxybutyrate and 3-hydroxyvalerate block

DIALOG(R)File 351:Derwent WPI
 (c) 2007 The Thomson Corporation. All rights reserved.
 Dialog Accession Number: 0016460276
 Derwent Accession Number: 2007-176505/200717

Patent Assignee(s): LG CHEM LTD (GLDS)

Inventor(s): CHUNG C; KIM Y B; RHEE Y H; YOON J

Number of Countries: 1 Number of Patents: 111

Patent Family:

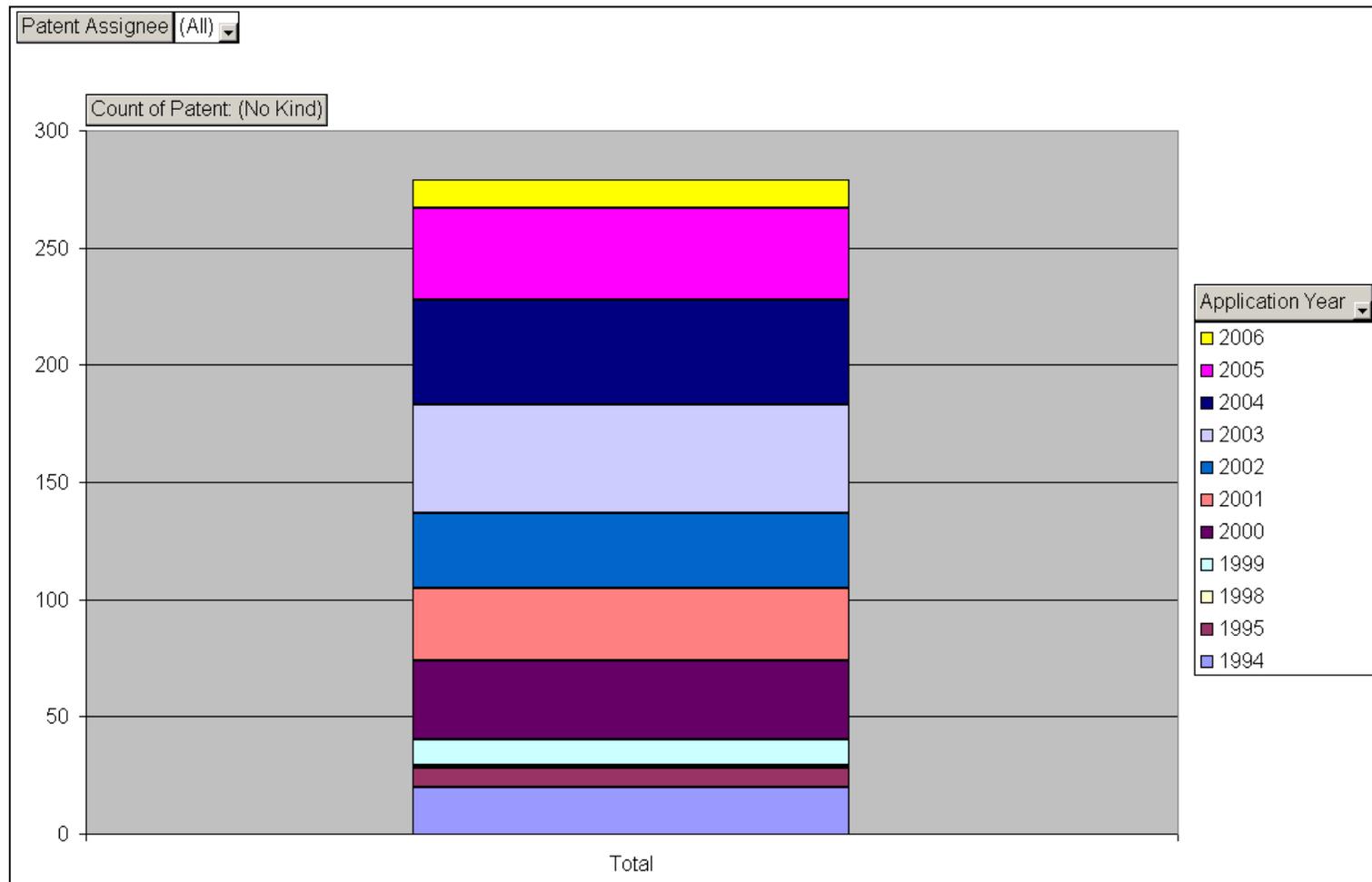
Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 2007004777	A1	20070111	WO 2005KR4439	A	20051222	200717	B

Priority Applications (No Type Date): KR 200559907 A 20050704

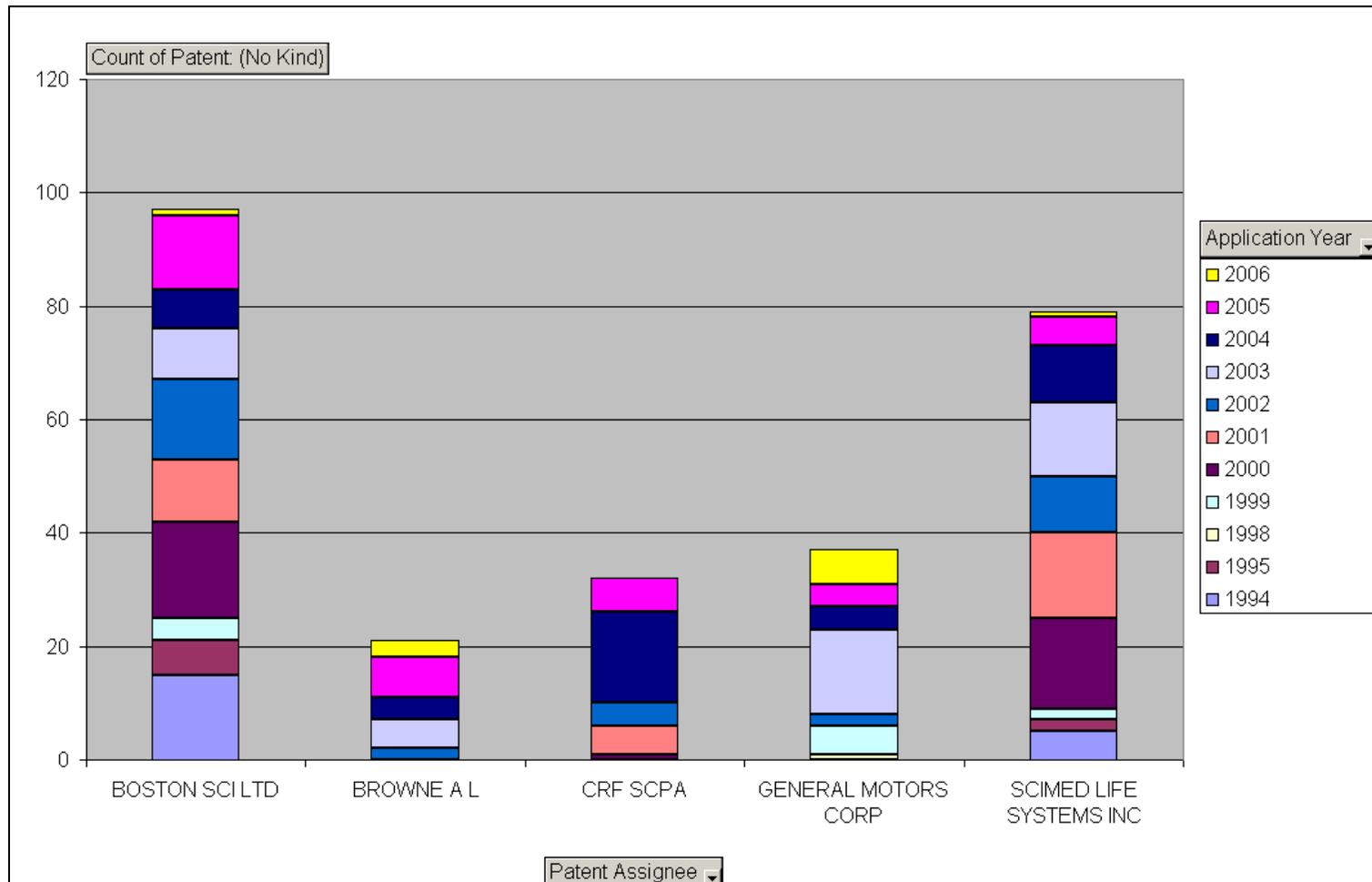
Patent Details:

Patent No	Kind	Lan	Pg	Drawings	Filing Notes
WO 2007004777	A1	EN	31	4	
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW				
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW				

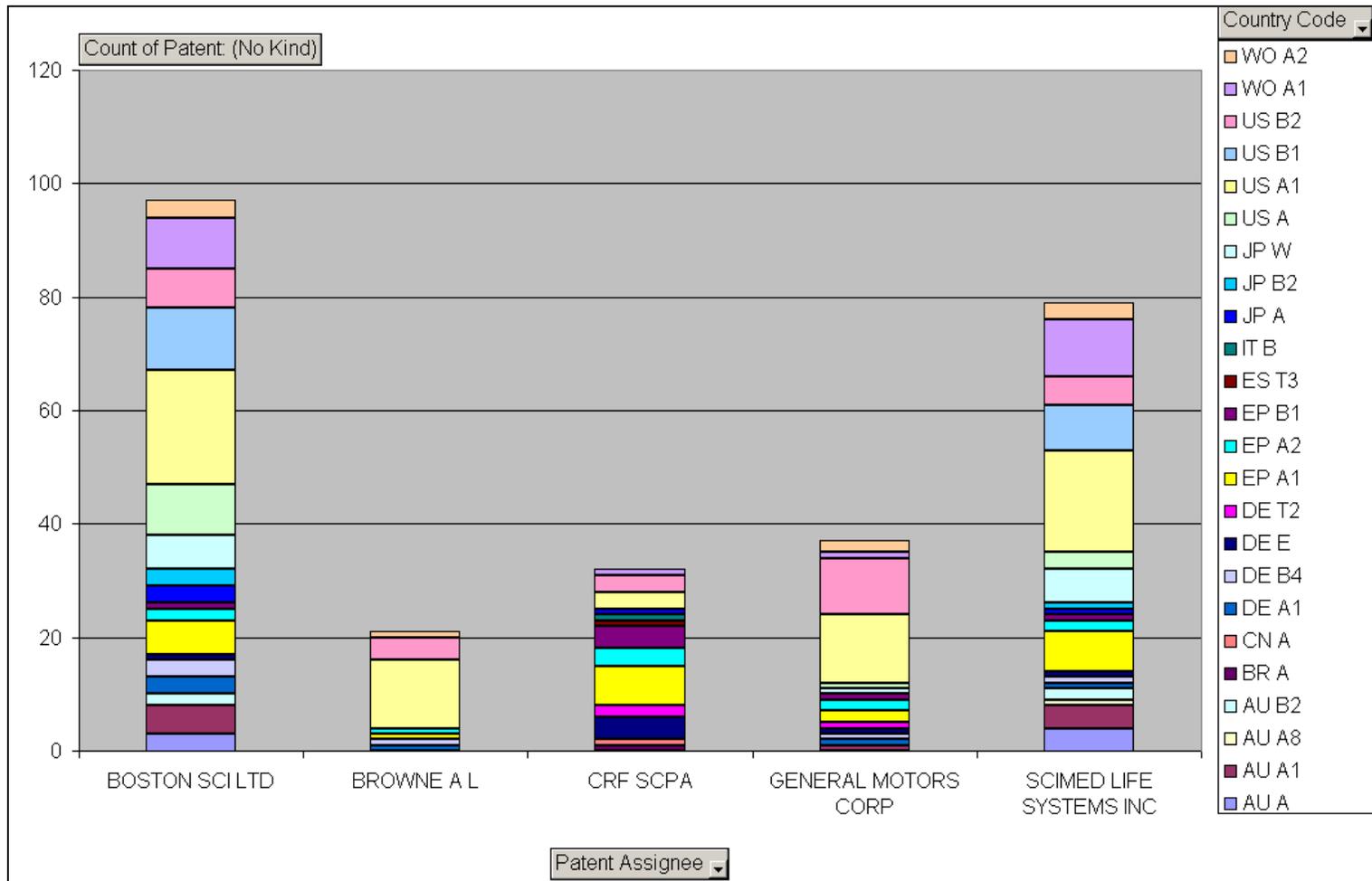
Analysis of Patents by Application Year



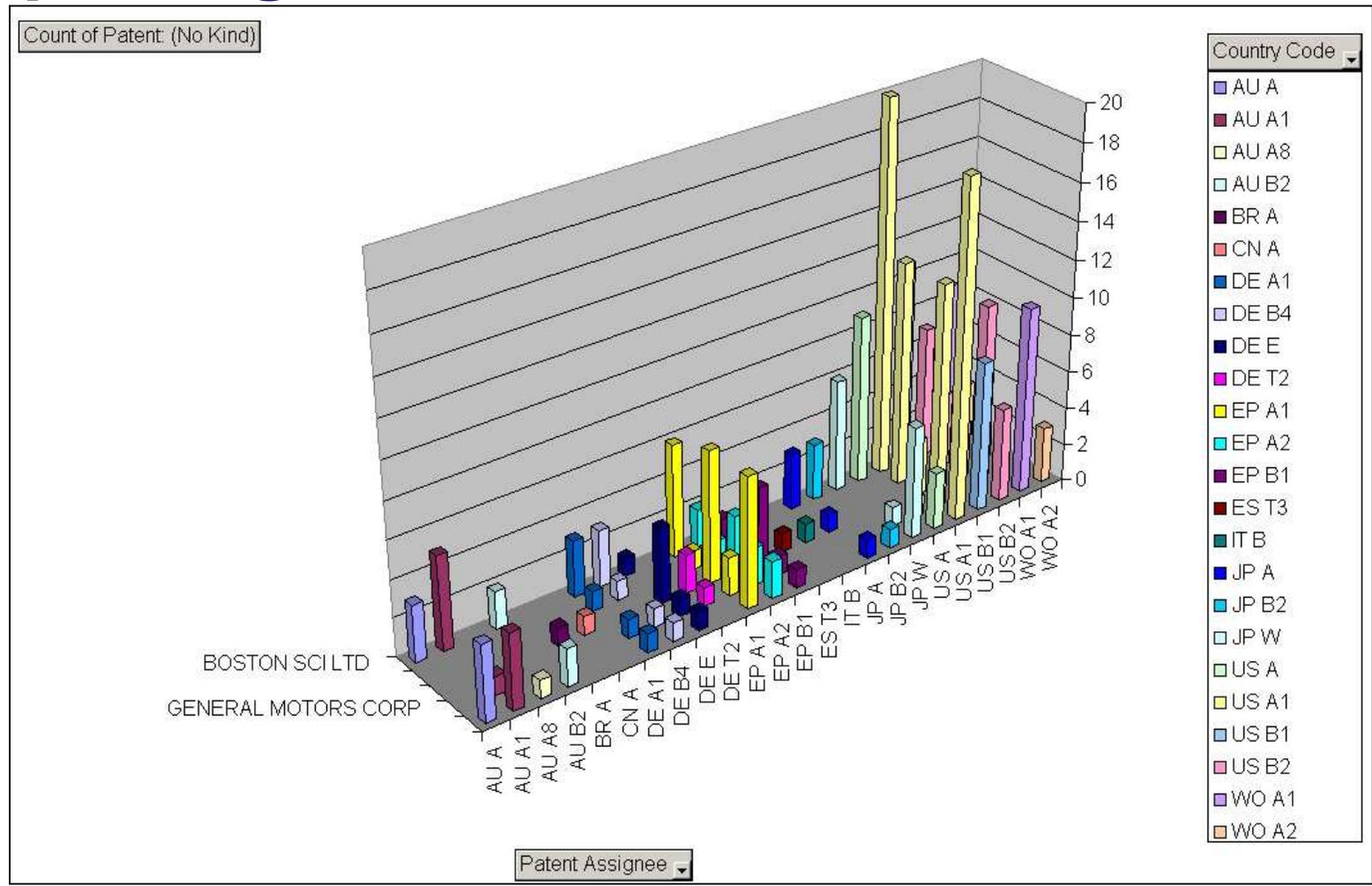
Analysis of Patents by Application Year for Top Assignees



Analysis of Publication Country for Top Assignees



Alternate View of Publication Country for Top Assignees



Advantages of XML Download plus Microsoft Excel & Word

- Both Excel & Word are readily available
- Organize & Analyze
- Relatively easy to use
- Pay once for data download in XML, then analyze as necessary at no additional cost
- Sophisticated graphing of results in Excel
- Enhanced readability in Word

Other “3rd Party” Tools

- BizInt Smart Charts for Patents
 - Supports Data from multiple hosts
 - Creates tabular reports

BizInt Smart Charts for Patents

	Title	Patent Assignee	Patent Family			Designated States			Application De		
			Patent	Kind	Date	Patent	Type	Countries	Patent	Kind	App
6	Composition used to treat neoplasm, comprises first agent e.g. curcumin or auranofin and second agent e.g. rilmenidine or docetaxel	COMBINATORX INC JOHANSEN L M LEE M S NICHOLS M J ZIMMERMANN G R	WO 2006122007	A1	20061116	WO 2006122007	W	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW	WO 2006122007	A1	WO 200
			US 20060264384	A1	20061123				US 20060264384	A1	US 200
	Treatment of allergic rhinitis comprises inhibition of a histamine molecule by reacting carbonyl group-containing compound with the histamine	RAM A N S SHAH B O	US 20060275516	A1	20061207	WO 2006130679	W	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW	US 20060275516	A1	US 200
			WO 2006130679	A2	20061207						

Analyzing

- Data Mining
 - Process of analyzing data from computers and other large relational databases (i.e. structured data)
- Text Mining
 - Process by computer of extracting information from unstructured (i.e. natural language) text and making links to form new facts or hypotheses
- Information Visualization
 - A visual approach to data analysis to reveal insights or unexpected relationships through lists, co-occurrence matrices, maps etc

Analyzing

-
-

Ah-ha!!!

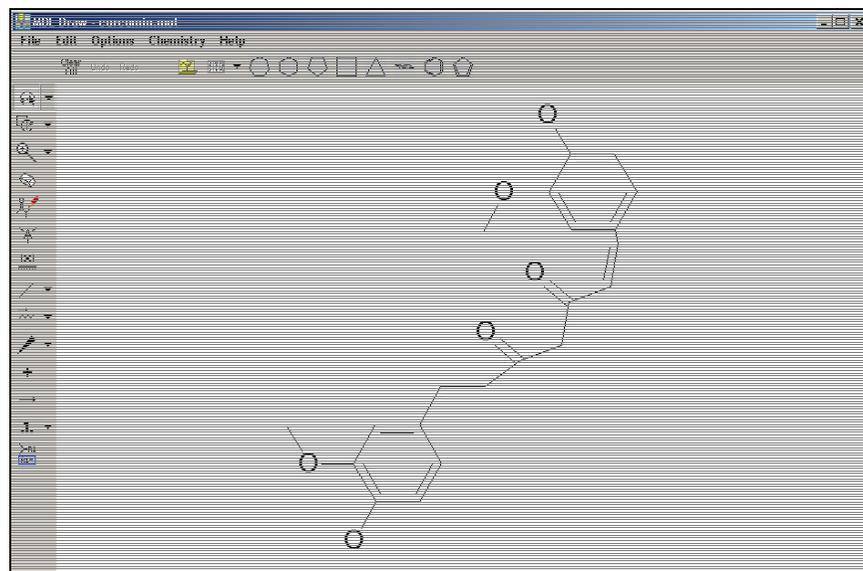
red
(i.e. natural language) text and making links to form new facts or

Eureka!!!

Stand Alone Products

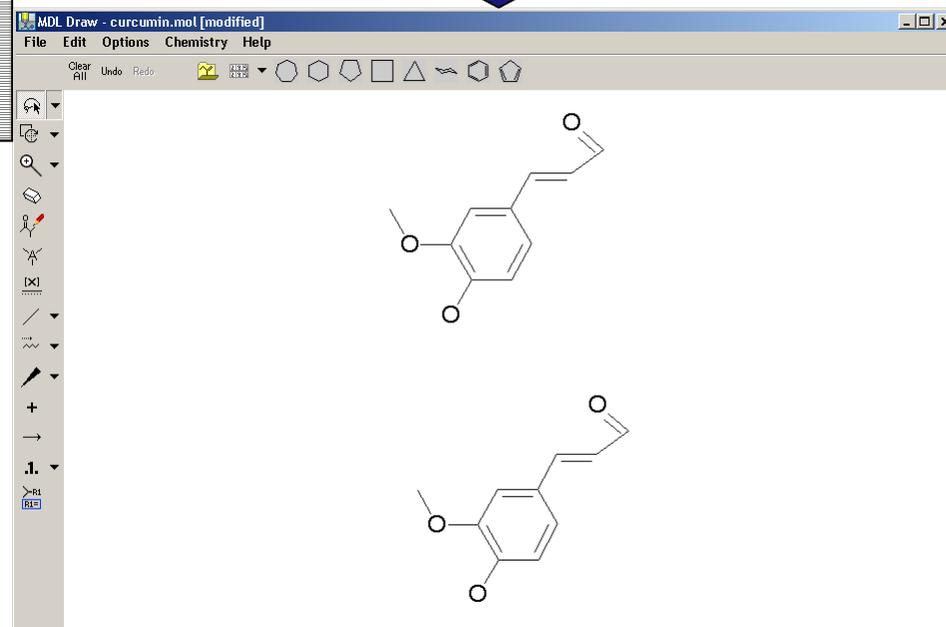
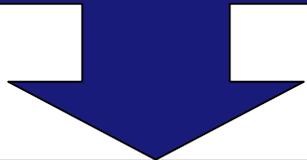
- Aureka
- Thomson Data Analyzer
- ClearForest
- VantagePoint
- More...

Mining the Results of a Chemical Structure Search



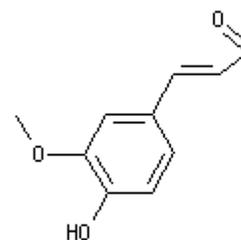
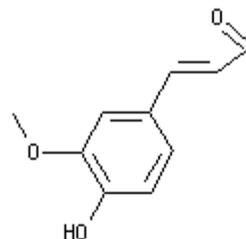
Curcumin

**InfoChem
Search Engine
retrieves substances
where group occurs
twice**



Structure Search in Derwent Chemistry Resource (DCR)

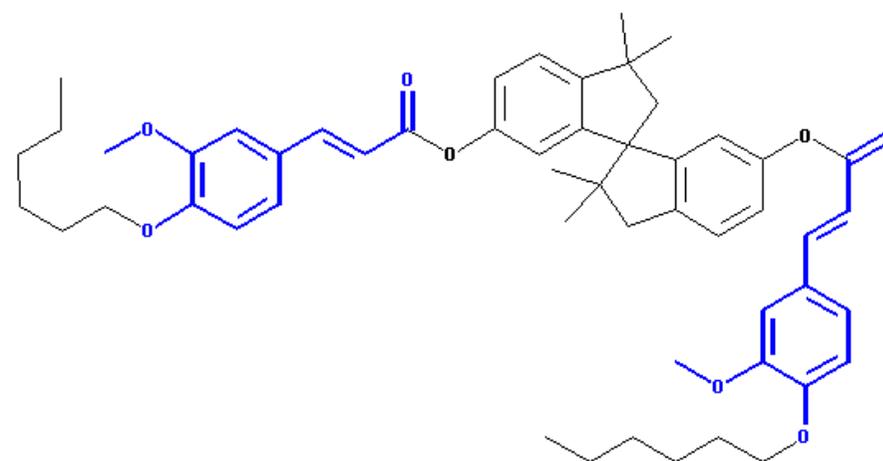
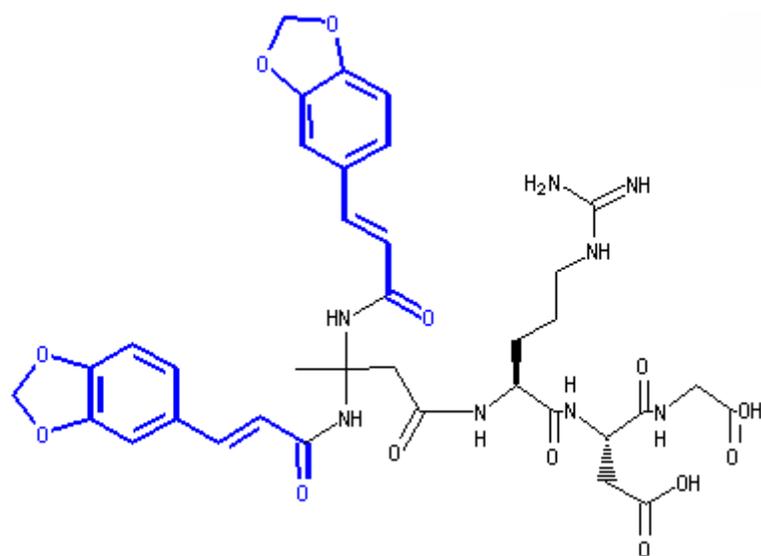
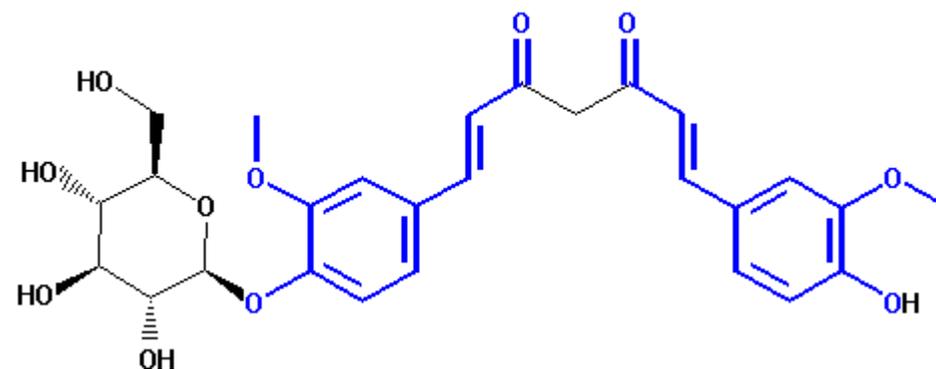
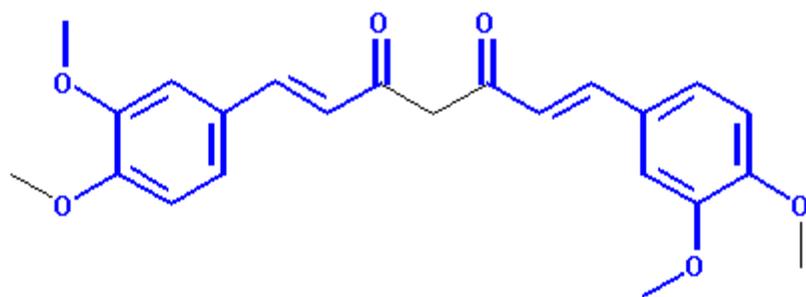
? Query Molecule:



Begin 355

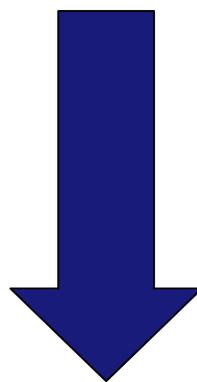
[File 355] **Derwent Chemistry Resource** UD=200718
(c) 2007 The Thomson Corporation. All rights reserved.

Sampling of Results



MAP DCR Results to DWPI

102 individual compounds in DCR



516 patent records in DWPI

Import Results into Analysis Tool

aureka[®] Gold Enter Patent Number (e.g., [US5590420](#), [EP0795855](#), [WO9725803](#))

Search Citations Alerts Reports Maps Documents Preferences

Document List Action Edit Application View Help

MIC025

- bstewart
 - ACS Paper 200703
 - Cluster
 - Curcumin-like 2007 Sprin
 - Functional Group CSS Se
 - Map-Functional Group CS
 - Cheese
 - IOHEXOL
 - 351 CSS
 - Imported Documents
 - Ranitidine Imported from DW
 - skadden
 - Map-351 CSS
 - Map-Imported Documents
 - Map-Ranitidine Imported from
 - Map-skadden
 - cutover-testing
 - Everyone
 - Temporary
 - Recycle

516 Patent Documents of 516 Total Documents

Results 1 - 50 No documents selected.

<input type="checkbox"/> * Document ID	Title	Assignee ▲	Inven
<input type="checkbox"/> WO2004004685A1	MEDICINAL SUSPENSION AEROSOL MODEL SYSTEMS	3M INNOVATIVE PROPERTIES CO	JINKS
<input type="checkbox"/> WO2006127930A2	COMPOSITIONS AND METHODS FOR THE TREATMENT OF MUSCULA...	A T STILL UNIVERSITY OF HEAL...	CARL
<input type="checkbox"/> WO2003075685A2	BIOAVAILABILITY/BIOEFFICACY ENHANCING ACTIVITY OF CUMINUM...	ABDULLAH SHEIKH TASADUQ	QAZI
<input type="checkbox"/> WO2003075685A3	BIOAVAILABILITY/BIOEFFICACY ENHANCING ACTIVITY OF CUMINUM...	ABDULLAH SHEIKH TASADUQ	QAZI
<input type="checkbox"/> WO2004009061A2	NEW PLANT BASED AGENTS AS BIOAVAILABILITY/BIOEFFICACY EN...	ABDULLAH SHEIKH TASADUQ	QAZI
<input type="checkbox"/> WO2004009061A3	BIOAVAILABILITY/BIOEFFICACY ENHANCING ACTIVITY OF CUMINUM ...	ABDULLAH SHEIKH TASADUQ	QAZI
<input type="checkbox"/> JP2002292811A	CONTAINER FOR PACKAGE FOOD WHEREIN DISCOLORATION OF INK...	ACE PACKAGE CO LTD	YAM.
<input type="checkbox"/> WO2004112776A2	INFLAMMATORY DISEASE TREATMENT	ADVANCED BIONUTRITION EURO...	CLAY
<input type="checkbox"/> WO2004112776A3	INFLAMMATORY DISEASE TREATMENT	ADVANCED BIONUTRITION EURO...	CLAY
<input type="checkbox"/> WO2005113601A2	ANTIBODIES AND MOLECULES DERIVED THEREFROM THAT BIND TO ...	AGENSYS INC	JAKC
<input type="checkbox"/> WO2006112933A1	ANTIBODIES AND RELATED MOLECULES THAT BIND TO PSCA PROTE...	AGENSYS INC	GUD
<input type="checkbox"/> WO2004080396A2	LIPOSOMAL CURCUMIN FOR TREATMENT OF CANCER	AGGARWAI BHARAT BHUSHAN	KUR2
<input type="checkbox"/> WO2004080396A3	LIPOSOMAL CURCUMIN FOR TREATMENT OF CANCER	AGGARWAI BHARAT BHUSHAN	KUR2
<input type="checkbox"/> WO1995018606A1	CURCUMIN, ANALOGUES OF CURCUMIN AND NOVEL USES THEREOF	AGGARWAL BHARAT B	AGG.
<input type="checkbox"/> WO2005020958A2	AEROSOL DELIVERY OF CURCUMIN	AGGARWAL BHARAT B	AGG.
<input type="checkbox"/> WO2005020958A3	AEROSOL DELIVERY OF CURCUMIN	AGGARWAL BHARAT B	AGG.
<input type="checkbox"/> WO1996009806A2	INHIBITION OF HAIR GROWTH	AHLUWALIA GURPREET S	AHLL
<input type="checkbox"/> JP2003055202A	PROPHYLACTIC AND THERAPEUTIC AGENT AGAINST INFLAMMATOR...	AJINOMOTO FARUMA KK	HAN
<input type="checkbox"/> WO2006029484A1	TOPICAL COMPOSITIONS CONTAINING PHOSPHORYLATED POLYPHE...	AJINOMOTO OMNICHEM S A	DECL
<input type="checkbox"/> WO2005040163A1	HETEROCYCLIC COMPOUNDS THAT BLOCK THE EFFECTS OF ADVA...	AKELLA VENKATESWARLU	YELE
<input type="checkbox"/> US20060135822A1	Stabilization of benzoyl peroxide in solution	ALPHARX INC	Schv
<input type="checkbox"/> EP1273301A2	Pharmaceutical preparations based on active ingredients suscepti...	ALTERGON SA	Gara
<input type="checkbox"/> EP1273301A3	Pharmaceutical preparations based on active ingredients suscepti...	ALTERGON SA	Gara

Top IPC's

aureka[®] Gold Select object(s)

Summary Report Help

- ▲ **Assignees**
 - Basic Report: Docs/Assignee
 - Documents By Assignee
 - Docs/Assignee/Issue Yr
 - Docs/Issue Yr/Assignee
 - Grants/Assignee/Expiration Yr
 - Grants/Expiration Yr/Assignee
 - Export Assignee Data
- ▼ **Inventors**
- ▲ **Primary IPC Data**
 - Basic Report: Top Primary IPCs**
 - Basic Report: Top Primary IPC Subc
 - Primary IPC Codes By 1st Assignee
 - Export Primary IPC Data
- ▼ **Complete IPC Data**
- ▼ **Forward Citations**
- ▼ **Backward Citations**
- ▼ **General**
- ▼ **Proprietary Fields**

▼ Show HTML Report filtering options

Basic Report: Top Primary International Patent Classification Codes

source document list: Curcumin-like 2007 Spring ACS [Print-Friendly](#)

IPC Class	Doc Count	Percentage
A61K 0031/12	32	6.2%
A23L 0001/30	21	4.1%
A61K 0047/48	17	3.3%
A61K 0031/00	13	2.5%
A61K 0035/78	12	2.3%
A61K 0039/395	10	1.9%
A23K 0001/16	9	1.7%
A61K 0009/00	8	1.6%
A61K 0009/127	8	1.6%
A61K 0031/05	8	1.6%
Number of occurrences in Top 10 patent classes	138	
Total number of IPCs	516	
Number of documents after filter	516	
Total number of documents in source	516	

Most Frequently Cited (Key) Patents



Select object(s)



Summary Report Help

- ▲ Assignees
 - Basic Report: Docs/Assignee
 - Documents By Assignee
 - Docs/Assignee/Issue Yr
 - Docs/Issue Yr/Assignee
 - Grants/Assignee/Expiration Yr
 - Grants/Expiration Yr/Assignee
 - Export Assignee Data
- ▼ Inventors
- ▲ Primary IPC Data
 - Basic Report: Top Primary IPCs
 - Basic Report: Top Primary IPC Subc
 - Primary IPC Codes By 1st Assignee
 - Export Primary IPC Data
- ▼ Complete IPC Data
- ▲ Forward Citations
 - Basic Report: Top Fwd Cites
 - Basic Report: Avg Yearly Fwd Cites
 - Fwd Cite Frequency By 1st Assignee

Show HTML Report filtering options

Basic Report: Forward Citation Frequency For Most Cited Documents

source document list: Curcumin-like 2007 Spring ACS

[Print-Friendly](#)

Document ID	Assignee	Cited by	Percentage
WO1991006292	DANOCHEMO A/S	58	7.2%
WO1992006410	GRAPHICS TECHNOLOGY INTERNATIONAL, INC.	47	5.8%
US5096813	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	36	4.4%
US4842859	UNKNOWN	25	3.1%
EP387000	SUNTORY LIMITED	18	2.2%
WO1989007957	BRIGHAM & WOMEN'S HOSPITAL	16	2.0%
WO1999021908	ANGIOTECH PHARMACEUTICALS, INC.	15	1.9%
US5882707	BPSI HOLDINGS, INC.	15	1.9%
WO2001052822	CHOPRA, RAJ, K.	15	1.9%
WO1995018606	RESEARCH DEVELOPMENT FOUNDATION	14	1.7%
Number of citations in Top 10 documents		259	
Total number of citations		810	
Number of documents after filter		516	
Total number of documents in source		516	

Most Frequently Cited (Key) Assignees

aureka[®]
Gold
Select object(s)

Standard Report Action Help

▲ Assignees

Basic Report: Docs/Assignee

Documents By Assignee

Docs/Assignee/Issue Yr

Docs/Issue Yr/Assignee

Grants/Assignee/Expiration Yr

Grants/Expiration Yr/Assignee

Export Assignee Data

▼ Inventors

▲ Primary IPC Data

Basic Report: Top Primary IPCs

Basic Report: Top Primary IPC Subc

Primary IPC Codes By 1st Assignee

Export Primary IPC Data

▼ Complete IPC Data

▲ Forward Citations

Basic Report: Top Fwd Cites

Basic Report: Avg Yearly Fwd Cites

Fwd Cite Frequency By 1st Assi

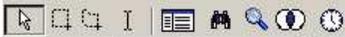
[Show HTML Report filtering options](#)

25 Rows Results 1 - 25 Page of 1

Standard Report: Forward Citation Frequency By 1st Assignee

source document list: [Curcumin-like 2007 Spring ACS](#) [Print-Friendly](#)

1st Assignee	Patents	Cited by	Avg citation
<input type="checkbox"/> UNKNOWN	24	95	4.0
<input type="checkbox"/> DANOCHEMO A/S	1	58	58.0
<input type="checkbox"/> GRAPHICS TECHNOLOGY INTERNATIONAL, INC.	1	47	47.0
<input type="checkbox"/> MASSACHUSETTS INSTITUTE OF TECHNOLOGY	1	36	36.0
<input type="checkbox"/> RESEARCH DEVELOPMENT FOUNDATION	4	30	7.5
<input type="checkbox"/> SABINSA CORPORATION	3	29	9.7
<input type="checkbox"/> BREWER SCIENCE, INC.	3	21	7.0
<input type="checkbox"/> CHR. HANSEN A/S	4	20	5.0
<input type="checkbox"/> SUNTORY LIMITED, 1-40 DOJIMAHAMA 2-CHOME KITA-KU, OSAKA-SHI OSAKA, JP	1	18	18.0
<input type="checkbox"/> EASTMAN KODAK COMPANY	2	17	8.5



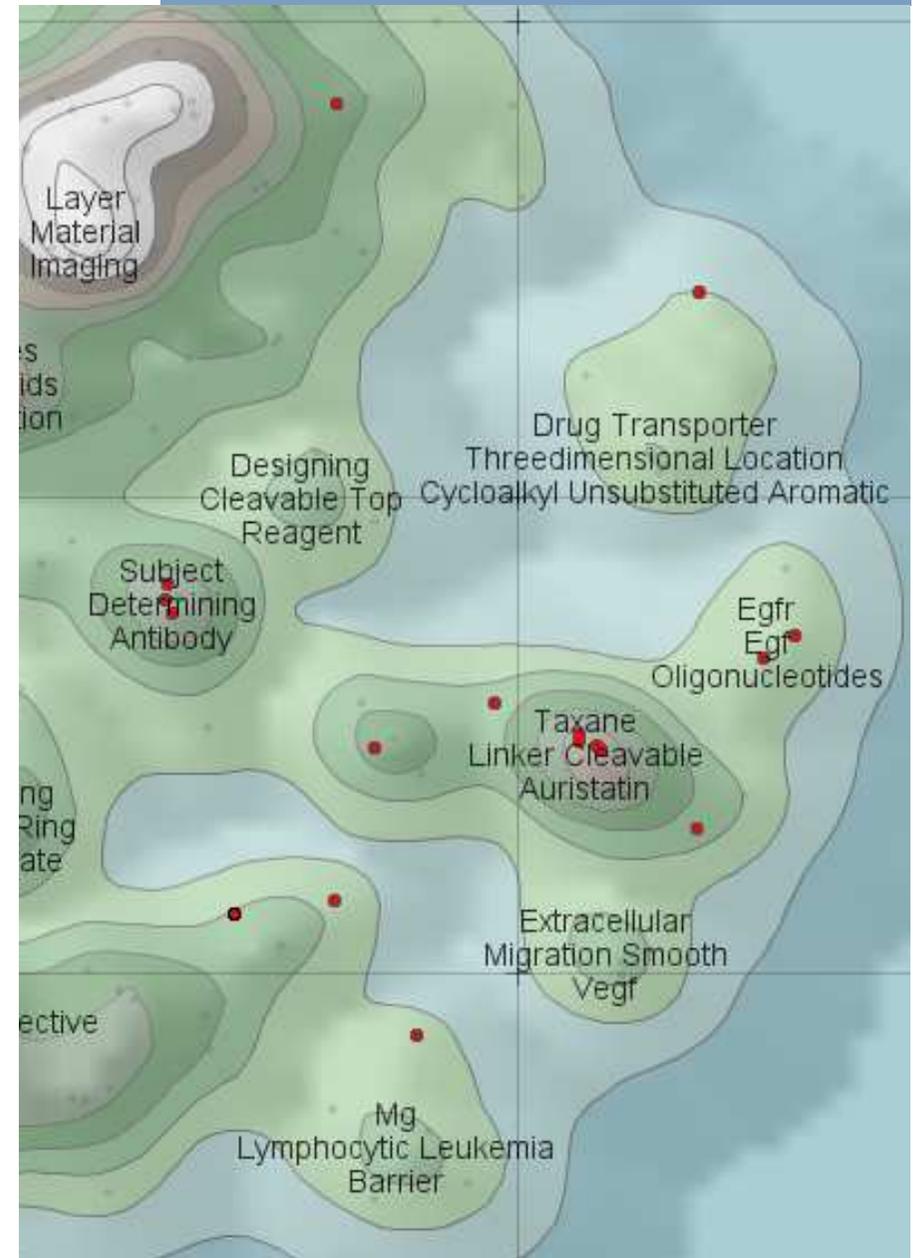
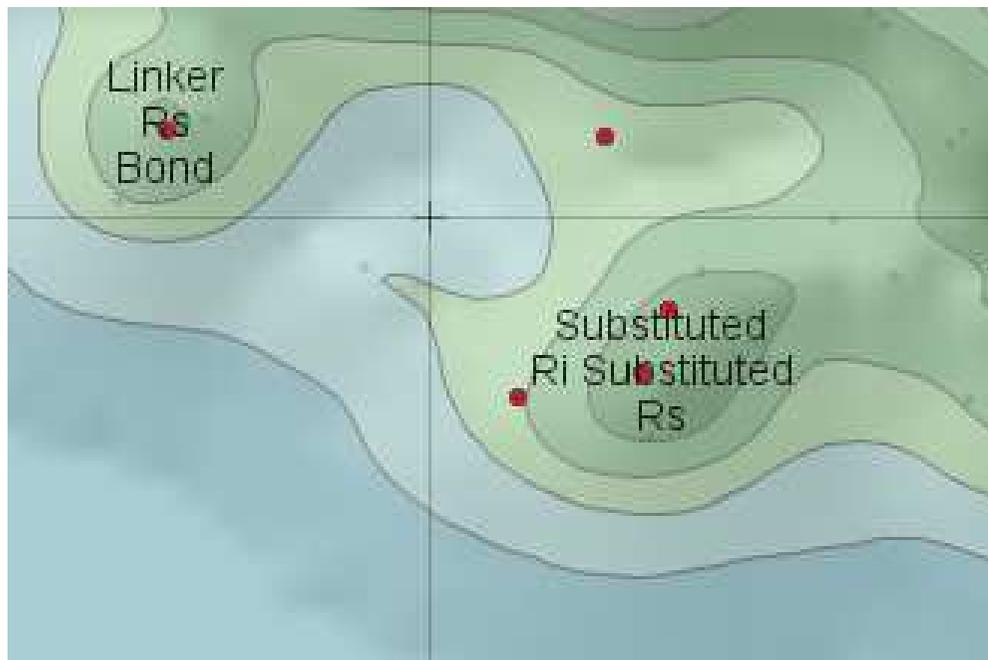
Top 10 Topics

Subject	#
Therapeutically Effective, ...	74
Mg	71
Oil	63
Hydrogen	59
Process	58
Drugs, Drug	57
Material	56
Concentration, Concentrate	55
Ethyl Brevifolin, Ethyl	54
Substitution, Substituted	50
Food	49
Ingredient	47
Liquid	44
Capsules, Capsule	44
Hydrogen Atom, Atoms	38
Curcuminoids, Curcuminoid	35
Antibody	35
Following Structure, Struct...	35
Derivative Oh Phenyl, Oh	33
Bond	33
Mammal	32
Phenyl Ring, Ring	31
Hydroxyl	31
Coating	30
Polymer	29
Conjugated, Conjugate	29
Color	29
Hydroxy	28
Resistant	27
Layer	27
Determining	27
Vitamins Minerals, Mineral	27
Preceding	27
Pigment	26
Supplement	25
Turmeric	22
Cytotoxic	22
Integer	21
Silicone	20
Color Changing Cleansing	20
Hesperidin Ginger, Ginger	20
Dispersion	20
Alkoxy	19
Cl	19
Antiproliferative Compoun...	19
Herbal	19
Copolymer	18



Copy Unselect All

Topics	# ...
Preceding	27
Pigment	26
Supplement	25
Turmeric	22
Cytotoxic	22
Integer	21
Silicone	20
Color Changing Cleansing	20
Unsaturated Glycol Glycol	20



It's Not All About Patents

- Important information can be mined from
 - Other technical databases
 - Science Citations Index
 - Inspec
 - Biosis
 - Embase
 - News and business publications
 - Gale Group PROMT
 - Dialog NEWSROOM

Curcumin in SciSearch

1 2 3 4 5 6 7 8 9

	# Records	# Instances	Author Affiliation
1	14	15	Univ Texas
2	11	26	Univ Arizona
3	8	9	Univ N Carolina
4	7	16	Cent Food Technol Res Inst
5	7	8	Chulalongkorn Univ
6	6	7	Rutgers State Univ
7	5	5	Annamalai Univ
8	5	6	Charles Univ
9	5	9	Sun Yat Sen Univ
10	5	5	Univ Leicester
11	5	5	Univ Rochester
12	5	5	Univ Ryukyus
13	4	4	Chiang Mai Univ
14	4	5	Chinese Acad Sci
15	4	4	Hong Kong Polytech Univ
16	4	4	Kanazawa Univ
17	4	4	Louisiana State Univ
18	4	7	M Nencki Inst Expt Biol
19	4	4	Mahidol Univ
20	4	4	Panjab Univ
21	4	6	Shandong Univ
22	4	8	Univ Calicut
23	4	4	Wayne State Univ
24	4	4	Wuhan Univ
25	3	4	Baylor Coll Med
26	3	7	Bhabha Atom Res Ctr
27	3	3	China Med Univ
28	3	3	Chonnam Natl Univ Hosp

List::Author Affiliatid

curcumin Sci...

Author

7	Timmermann BN
5	Gang DR
5	Lee KH
4	Kong ANT
4	Kotyzova D
4	Koutensky J
4	Shishodia S
4	Xu CJ
3	Aggarwal BB
3	Bhattarakosol P
3	Jiang HL
3	Murugan P
3	Nakagawa-Goto K
3	Patumraj S
3	Shen GX
3	Sekom AM

Country

Country	Count
Czech Republic	5
England	4
Germany	2
India	15
Peoples R. China	5
Thailand	7
USA	34

For Help, press F1

Dataset: FieldExists

Curcumin in SciSearch

	# Records	# Instances	Cited Author
1	80	105	AGGARWAL BB
2	70	113	HUANG MT
3	63	83	SHARMA RA
4	59	60	AMMON HPT
5	53	53	CHENG AL
6	39	50	SURH YJ
7	38	40	SINGH S
8	37	40	ANTO RJ
9	36	39	JOE B
10	34	37	DUVOIX A
11	34	41	RAO CV
12	31	45	BHARTI AC
13	29	33	MUKHOPADHYAY A
14	28	31	PLUMMER SM
15	28	28	RUBY AJ
16	26	26	LIN JK
17	26	26	PAN MH
18	26	37	SHISHODIA S
19	25	29	DORAI T
20	24	25	KAWAMORI T
21	23	23	JOBIN C
22	23	28	KELLOFF GJ
23	22	22	BHAUMIK S
24	22	22	CHAINANMU N
25	22	29	EGAN ME
26	22	22	JIANG MC
27	22	26	REDDY ACP
28	22	23	WOO JH

Author	
4	Shishodia S
4	Solyom AM
3	Aggarwal BB
3	Aggarwal BB
3	Timmermann BN
2	Aggarwal BB
2	Chen GJ
2	Chung JG
2	Dikshit P
2	Eybl V
2	Frye JB
2	Funk JL
2	Goswami A
2	Hoehle SI
2	Ichikawa H
2	Iena NP

Country	Count
Belgium	1
Canada	3
Czech Republic	2
England	1
Finland	2
Germany	4
Greece	1
India	11
Israel	2
Japan	4
North Ireland	1
Peoples R China	4
South Korea	6
Spain	1
Taiwan	3
USA	32

List::Cited Author

curcumin Sci...

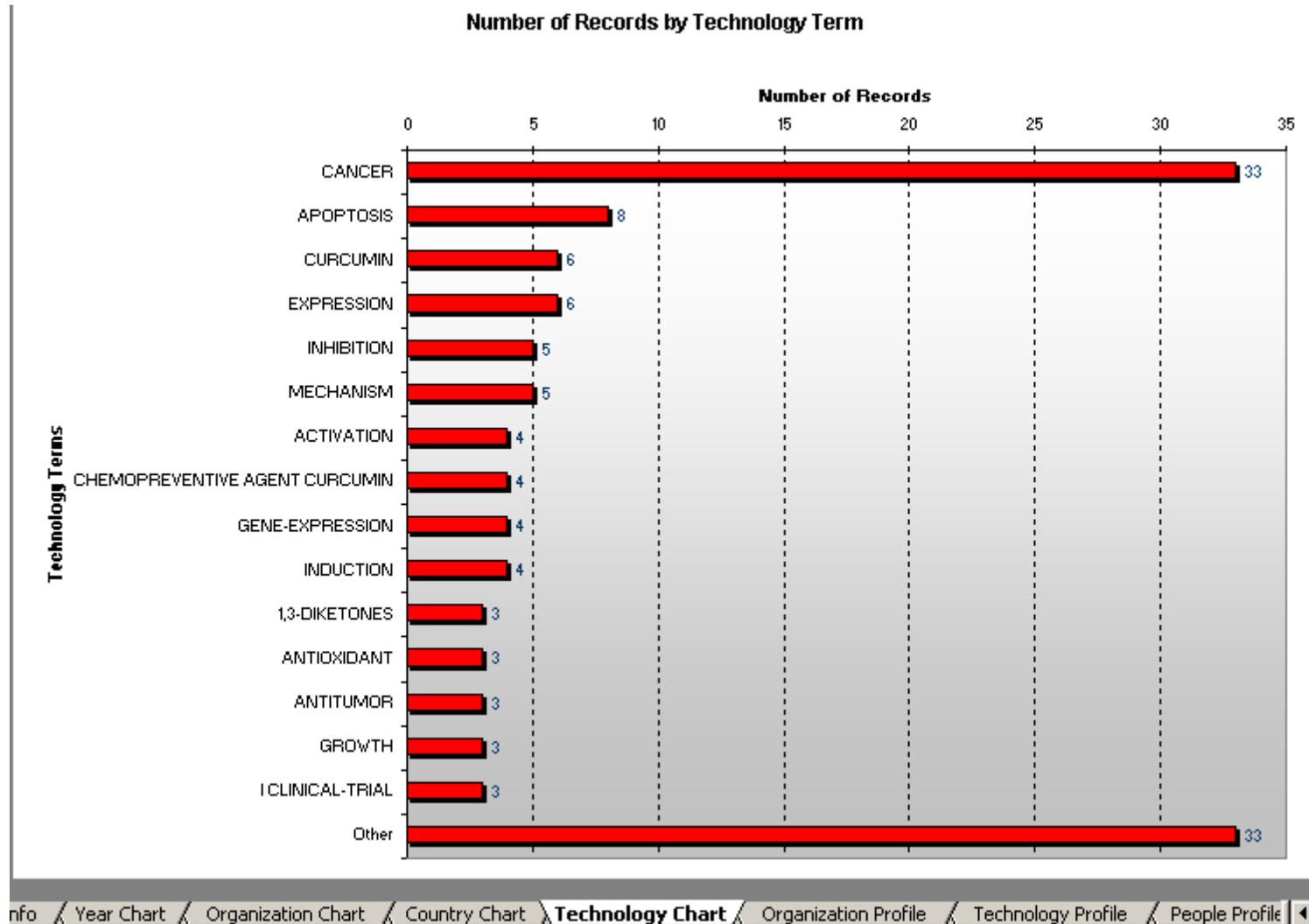
For Help, press F1

Dataset: FieldExists

Curcumin in SciSearch

Reset	Subject Category		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
		# Records	251	108	90	77	65	61	58	58	55	52	41	40	40	39	39	38	37	35	32	30	29	28	27	27	26	25	24	24	23	23	23	
		Show Values >= 1																																
		Cooccurrence # of Records																																
	Abstract (NLP) (Phrases)																																	
	# Records		curcumin	results	rights reserved	study	effect	treatment	inhibition	effects	apoptosis	expression	activation	vitro	activity	cells	turmeric	present study	development	compounds	induction	aim	ability	mechanism	data	one	increase	vivo	rats	role	cancer	proliferation	findings	
1	97	PHARMACOLOGY & PHARMACY	59	31	25	14	20	15	12	17	8	9	9	10	10	11	11	12	9	5	6	10	8	3	6	6	4	5	7	6	6	6	3	
2	67	BIOCHEMISTRY & MOLECULAR BIOLOGY	46	15	30	10	12	14	8	6	10	6	8	9	12	6	4	7	7	10	4	4	8	8	8	3	5	4	2	3	3	5	6	
3	66	TOXICOLOGY	50	23	5	16	10	15	19	13	24	22	12	7	4	12	6	5	10	3	10	5	6	4	7	6	2	8	2	4	7	6	4	
4	35	CELL BIOLOGY	27	11	8	6	10	7	8	5	10	9	4	2	5	6	1	7	3	3	3	4	3	1	8		6	1	3	2	2	3	1	
5	30	FOOD SCIENCE & TECHNOLOGY	21	8	9	7	4	2	2	6	1	2		1	3	1	6	3	2	2			2	1	1	3	1	1	3	1	1	1	3	
6	28	CHEMISTRY, MULTIDISCIPLINARY	9	6	1	4	2	2	2	5	2	2		1	2	2	2	1	1	4	1	5	5		2				1		2			
7	28	CHEMISTRY, MEDICINAL	10	3	4	6	5	3	1	2		3	1	3	4	4	2	2	1	8		2	2	2	2	1				1	1			
8	23	CHEMISTRY, APPLIED	12	6	7	5	3	1	2	3	2		2	3	1	5	3	2	4					1	2	1	3	1	2		1		2	
9	23	GASTROENTEROLOGY & HEPATOLOGY	7	6		4	1	1	4			1	3	1	1		1	1	1	1	1	5		1		1	1						2	
10	22	MEDICINE, RESEARCH & EXPERIMENTAL	13	7	7	6	5	7	5	3	3	2	2	4	2	4	3	1	3	1	3	1		1		3	1	2	3	2	1	1	1	
11	21	TOXICOLOGY	16	9	7	3	6	4	4	2	3	1	3	1		2	2	6		2	2		3	2	2	3	2		4	3			1	
12	18	IMMUNOLOGY	9	1	3	4	6	2	2	2		4	3	1	2	1	1	3				1	2		2		2	2	2	3	1	2		
13	17	ENDOCRINOLOGY & METABOLISM	10	2	7	2	2	1		1			1	3	2	1	1			1	2		1	3	4	1	1	2			2			
14	17	CHEMISTRY, ANALYTICAL	10	2	6	1		3							1		2		1	3						1								
15	15	NUTRITION & DIETETICS	12	1	7	3	2	3	2	3	1	1	1	1	2		3	1	1	1		1		1	1	1	1	2	1					
16	14	BIOPHYSICS	12	2	13	1	2	4	2		4			2	1	3		2	2	1	2		2	2	1	1				1	1	1	2	
17	12	AGRICULTURE, MULTIDISCIPLINARY	6	3		3	1		1	3	2		1	1		4	2	2	1				1		1	1	1	1	1		1		2	
18	11	PHYSIOLOGY	7	3		2	1	1	3	2	3	3	3	2	1	2	1	2	1		2	1			1		2				1			
19	11	PLANT SCIENCES	3	3	3		1	1				1		1	1	1	2			3				2										1

Curcumin in SciSearch

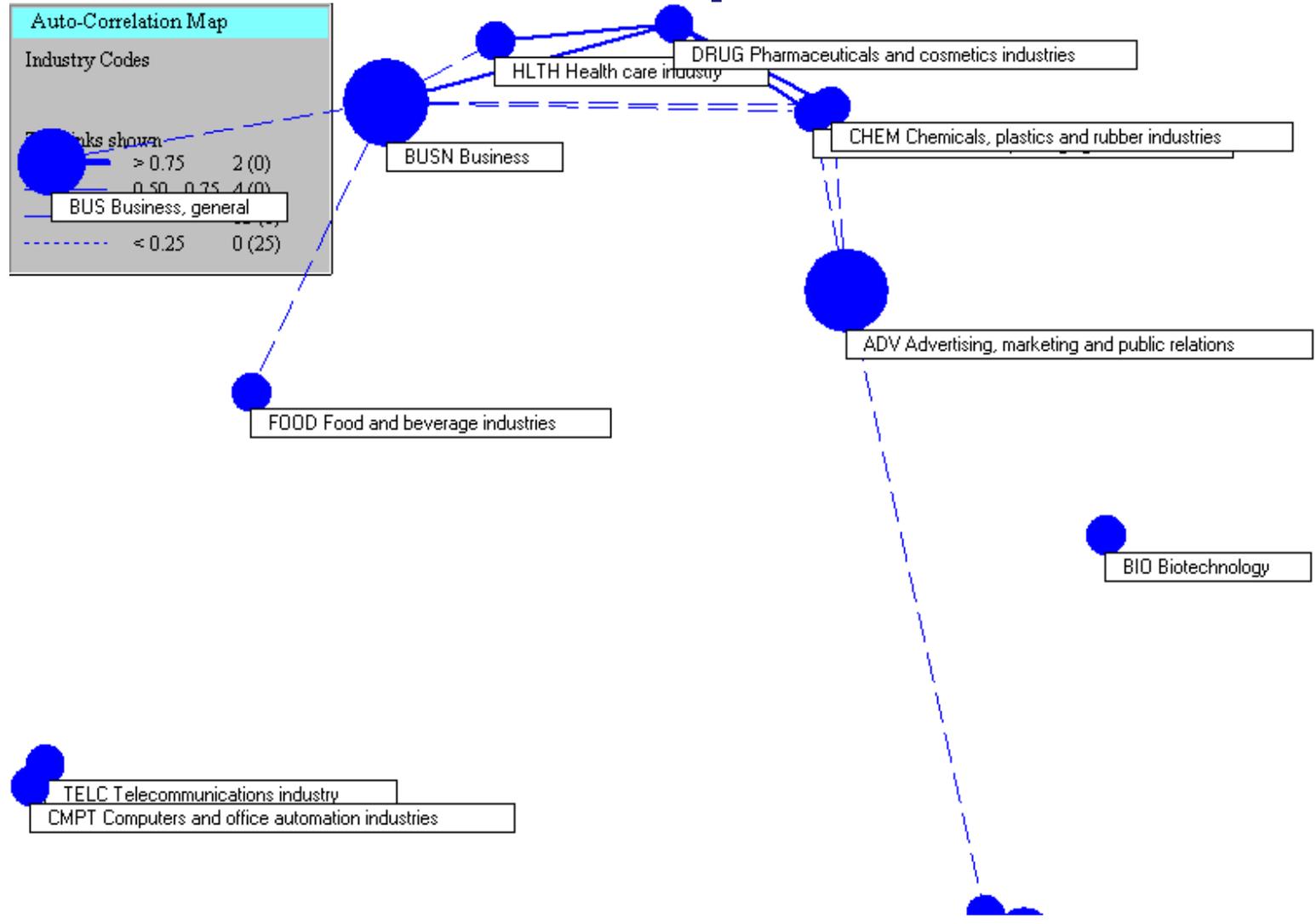


Curcumin in Gale Group PROMT

Reset	NAICS Codes									
			1	2	3	4	5	6	7	
		# Records	25	14	10	6	5	5	3	
Event Codes	# Records	Show Values >= 1 Cooccurrence # of Records								
		*336 Product introduction	21	4	6	5		2	2	
		*310 Science & research		7						
		*330 Product information		2	1		3			
		*240 Marketing procedures		2	1		1	1		
		*930 Government regulation					1			
		*350 Product standards, safety, & recalls								
		940 Government regulation (cont)								
		1	46	325412 Pharmaceutical Preparation Manufacturing						
		2	8	54171 Research and Development in the Physical, Engineering, and Life Sciences						
		3	7	311942 Spice and Extract Manufacturing						
4	6	325199 All Other Basic Organic Chemical Manufacturing								
5	3	311 Food Manufacturing								
6	2	51321 Cable Networks								
7	2	92614 Regulation of Agricultural Marketing and Commodities			1	1				
8	2	61131 Colleges, Universities, and Professional Schools		1						
9	2	621498 All Other Outpatient Care Centers								
10	2	624 Social Assistance								

	# Records	# Instances	Company Names
1	4	4	Estroven
2	2	2	America's Finest
3	2	2	AmeriFIT
4	2	2	Discovery Communications Inc.
5	2	2	Health and Diet Co.
6	2	2	Herb Pharm Inc.
7	2	2	Mason Vitamins
8	2	2	Sabinsa Corp.
9	2	2	Science Service Inc.
10	1	1	AB Technologies Alimentaire
11	1	1	AC Humko Corp.
12	1	1	Amerifit Inc.
13	1	1	Amerifit Nutrition
14	1	1	Anabolic Inc.
15	1	1	Anabolic Laboratories Inc.
16	1	1	Aromatherapy Products Ltd.

Curcumin in Gale Group PROMT



Conclusions

- Value add tools provided by commercial search services (e.g. RANK) enable easy, relatively inexpensive organization of data
- Readily available software (e.g. Microsoft Excel) enables visualization and entry to analysis
- More sophisticated tools (e.g. Thomson Data Analyzer) provide “ah-ha!!” moments

Thank You!

Bob Stewart

bob.stewart@thomson.com

