	espiration and anaerobic synthesis of deoxyribonucleosides		Factors strongly associated with LBP (OR > 1.2-)	Fa
I « cluster argininosuccinate Ivase, aspartate ammonia-ivase, dimethyl sulfoxide	2 nd cluster pyruvate formate-lyase activating enzyme, coorgoorphyrinogen III	Lack of fitness/Physical inactivity	Balague, 1999 [44]* Feuerstein, 1999[45] ****	F
a germonactivate un appare, appar activate emmonacy, controlly a controller enductase, 3,4-dihydroxy-2-butanone 4-phosphate synthase, formate hydrogenlyase complex, formate dehydrogenase pyruvate formate-lyase, fumarate reductase, FocA formate FNT transporter	pyrovace tormacysae activiting enzyme, cyperoporphyringen in oxidase, anaerobic, nanerobic nucleoside-triphosphate reductase activating system, PFL-deactivase, ribonucleoside triphosphate reductase activase, lipoate synthase	Smoking	Baligue, 1999[41] * Feldmann, 1999[47] *** Levangie, 1999[48] *** Power, 2001[49] **	Let
Processin	g of hexoses	Obesity	Koda, 1991[50] **** Alcoufe, 1999[51] **** Walker, 1999[32] *** Fransen, 2002[53] ****	Bat Les Les
l « cluster	2 nd cluster	Psychosocial stress	Webb. 2003[55] ****	Mir
I-phosphorfuctokinase, 6-phosphorfuctokinase, 6-phospho-II- glucosidase, glucokinase, mannistol-I-phosphase 5-dehydrogenase, mannose-6-phosphase isomerase, phosphoglucose isomerase, EIIMan transporter	gyceraldehyde 3-phosphate dehydrogenate, 2-keto-3-deoxy-6- phosphogluconate aldolase, phosphogluconate dehydratase, phosphoglycerate kinase, triose phosphate isomerase	Psychosocial stress	Ballgoo, 1975[27] *** Hag, 1977[36] *** Josephson, 1998[40] *** Adms, 1999[40] *** Krause, 1998[40] *** Bide, 2000[43] *** Therbinmison, 2000[44] ***	Ho
Iron p	rocessing		Vingard, 2000(65) ***** Yip, 2001(66) ***** Power, 2001(67) ***	
l « cluster	2 nd cluster		Harkness, 2003[68] *** Van den Heuvel, 2004[69] ***	
2.3-dhydroxybenzoate-APP ligase, 2,3-dhydro-2,3-dhydroxybenzoate dehydrogenase, serine activating enzyme, aryl carrier protein, enterobactin synthase multienzyme complex, isochorismatase.	cysteine desulfurase, selenocysteine lyase, thiamin (thiazole moiety) biosynthesis protein, Yaaj alanine AGSS transporter, valine-pyruvate aminortonsferase	Physical trauma	Harkness, 2003[68] *** Balague, 1999[44] *	
sochorismate synthase, enterochelin esterase	and the same of th		Factors strongly associated with LBP (OR > 1.2-)	
Acid r	esponse	Awkward posture (at work)	K042, 1991[30] Alcouffe, 1999[51] **** [in, 2000[53] **	Pic
phosphate synthase, histidinal dehydrogenase, histidinol-phosphate amin histidinol dehydrogenase, phosphoribosyl-ATP pyrophosphatase, imidazi		Frequent bending and twisting	Alcoufe, 1999[51] **** Hoogendoorm, 2000[59] *** Vingard, 2000[65] **** Jin, 2000[71] *** Van den Heuvel, 2004[69] ****	Pic
phosphoribosylformimino-5-amino-1-phosphoribosyl-4-imidazole carbos methyltransferase, aspartate DAACS transporter	ramide isomerase, quinolinate synthase complex, protein-(glutamine-NS)	Heavy litting, repetitive litting	Marras, 1995[73] **** Magnusson, 1996[74] ****	Г
Nucleoside	metabolism		Sturmer, 1997[75] **** Krause, 1998[62] **** Josephson, 1998[60] **** Alcouffe, 1999[51] ****	
I « cluster	2 nd cluster		Thorbjornsson, 2000[64] *** Vinrard, 2000[65] ****	
dGDP kinase, nucleoside diphosphate kinase ribonucleoside- diphosphate reductase, deoxyguanylate kinase, GTP cyclohydrolase I, guanylate kinase, guanosine-3',5'-bis(diphosphate) 3'-diphosphatase,	d IDP-glucose pyrophosphorylase, d IDP kinase, UDP-glucose-hexose- I-phosphate uridylyltransferase, UDP-galactopyranose mutase, nucleoside diphosphate kinase, galactose-I-phosphate uridylyltransferase		Hartvigsen, 2001 [76] *** Nahit, 2001 [77] *** Fransen, 2002 [53] *** Harkness, 2003 [68] ***	
ribonucleoside-diphosphate reductase One ca	rbon units	Jarring, Gripping, vioration, repetitive actions	Bongars, 1993/78) Magnusson, 1996/74] **** Levangie, 1999/48) *** Pope, 1999/79] ***	Γ
		Protonged sitting & protonged standing	Jin, 2000[71] *	Hill
gcv system, glycine dehydrogenase (decarboxylating).	glutathione synthetase, glycyl-tRNA synthetase, lipoyl-protein ligase A		Borgers, 1993[78] ** Thorbiomsson, 2000[64] ***	

Data Sets	Algs	CPU (s)	Iters	Avg Sub-iters	F(x)
	ADAL	1.14e+001	194	1.00e+000	8.4892e+002
ogl-dct-1000-5000-1	FISTA-p	1.21e+001	20	1.11e+001	8.4892e+002
	FISTA	2.49e+001	24	2.51e+001	8.4893e+002
	ADAL	3.31e+001	398	1.00e+000	1.4887e + 003
ogl-dct-1000-10000-1	FISTA-p	2.54e+001	41	5.61e+000	1.4887e + 003
	FISTA	6.33e+001	44	1.74e + 001	1.4887e + 003
	ADAL	6.09e+001	515	1.00e+000	2.7506e+003
ogl-dct-1000-15000-1	FISTA-p	3.95e+001	52	4.44e+000	2.7506e+003
	FISTA	9.73e+001	54	1.32e+001	2.7506e+003
	ADAL	9.52e+001	626	1.00e+000	3.3415e+003
ogl-dct-1000-20000-1	FISTA-p	6.66e+001	63	6.10e+000	3.3415e+003
	FISTA	1.81e+002	64	1.61e+001	3.3415e+003
	ADAL	1.54e+002	882	1.00e+000	4.1987e + 003
ogl-dct-1000-25000-1	FISTA-p	7.50e+001	88	3.20e+000	4.1987e + 003
	FISTA	1.76e+002	89	8.64e + 000	4.1987e + 003
	ADAL	1.87e + 002	957	1.00e+000	4.6111e+003
ogl-dct-1000-30000-1	FISTA-p	8.79e+001	96	2.86e+000	4.6111e+003
	FISTA	2.24e+002	94	8.54e+000	4.6111e+003

Form of Nonqualified Stock Option Agreement for awards under the Alliance Data Syst Corporation 2005 Long Term Incentive Plan (incorporated by reference to Exhibit No. i Current Report on Form 8-K filed with the SEC on August 4, 2005. File No. 001-15749). Form of Restricted Stock Award Agreement for awards under the Alliance Data Sys

+10.3

+10.45

+10.4

Corporation 2005 Long Term Incentive Plan (incorporated by reference to Exhibit No. 10.5 to our Current Report on Form 8-K filed with the SEC on August 4, 2005. File No. 001-15749). of Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation

2005 Long Term Incentive Plan, as amended (incorporated by reference to Exhibit No. 99.1 to our Current Report on Form 8-K filed with the SEC on April 4, 2006, File No. 001-15749). Form of Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2005 Long Term Incentive Plan (2007 grant) (incorporated by reference to Exhibit No. 10.99 to our Annual Report on Form 10-K filed with the SEC on February 26, 2007, File No. 001-15749). Form of Agreement for 2007 Special Award under the Alliance Data Systems Corporation 2005

Long Term Incentive Plan (incorporated by reference to Exhibit No. 10.100 to our Annual Report on Form 10-K filed with the SEC on February 26, 2007, File No. 001-15749).

Form of Canadian Nonqualified Stock Option Agreement for awards under the Alliance Data Systems Corporation 2005 Long Term Incentive Plan (incorporated by reference to Exhibit No. 10.101 to our Annual Report on Form 10-K filed with the SEC on February 26, 2007, File No. 001-15749).

Form of Canadian Restricted Stock Award Agreement for awards under the Alliance Data System Corporation 2005 Long Term Incentive Plan (incorporated by reference to Estibit No. 10.102 to our Annual Report on Form 10-K filed with the SEC on February 26, 2007, File No. 001-15749).

Form of Canadian Restricted Stock Unit Award Agreement under the Alliance Data Systems Corporation 2005 Long Term Incentive Plan (2007 grant) (incorporated by reference to Exhibit No. 10.103 to our Annual Report on Form 10-K filed with the SEC on February 26, 2007, File No.

Form of Canadian Agreement for 2007 Special Award under the Alliance Data Systems Corporation 2005 Long Term Incentive Plan (incorporated by reference to Exhibit No. 10.104 to our Annual Report on Form 10-K filed with the SEC on February 26, 2007, File No. 001-15749). Form of Non-Employee Director Nonqualified Stock Option Agreement (incorporated by reference to Exhibit No. 10.1 to our Current Report on Form 8-K filed with the SEC on June 13,

Form of Non-Employee Director Share Award Letter (incorporated by reference to Exhibit No 10.2 to our Current Report on Form 8-K filed with the SEC on June 13, 2005, File No. 001-

Alliance Data Systems Corporation Non-Employee Director Deferred Compensation Plan (incorporated by reference to Exhibit No. 10.1 to our Current Report on Form 8-K, filed with the

Form of Alliance Data Systems Associate Confidentiality Agreement (incorporated by reference

to Exhibit No. 10.24 to our Annual Report on Form 10-K filed with the SEC on March 12, 2003,

Form of Alliance Data Systems Corporation Indemnification Agreement for Officers and Directors (incorporated by reference to Exhibit No. 10.1 to our Current Report on Form 8-K filed with the SEC on February 1, 2005, File No. 001-15749).

2005, File No. 001-15749).

SEC on June 9, 2006, File No. 001-15749).

	(a)										
П	Common attributes	= 30	≥ 27	≥ 24	≥ 21	≥ 18	≥ 15	≥ 1	≤ 5		
	TAD										
	TOP100	16	22	28	40	53	69	393	224		
	TOP90	16	22	26	37	47	62	368	219		
	TOP80	14	19	26	29	43	54	331	200		
	TOP70	12	18	25	28	35	48	302	189		
	TOP60	9	18	21	26	32	38	250	155		
	TOP50	7	17	20	22	28	34	202	122		
	TOP40	3	14	17	21	23	29	160	97		
	TOP30	1	10	15	19	20	23	125	80		
	TOP20	1	5	8	13	15	18	74	46		
	TOP10	1	1	1	5	7	8	42	25		
Π				TAK							
	TOP100	11	27	42	53	59	70	443	295		
	TOP90	11	25	38	47	56	66	397	264		
	TOP80	11	23	33	44	54	59	333	211		
	TOP70	10	20	28	42	46	55	283	176		
	TOP60	8	16	23	34	42	49	241	155		
	TOP50	7	13	18	27	34	45	200	122		
	TOP40	5	10	14	18	28	37	154	97		
	TOP30	4	8	11	14	15	19	112	63		
	TOP20	2	5	7	8	12	14	82	48		
	TOP10	2	3	4	5	5	7	43	28		

	t=0.5	t=0.6	t=0.7	t=0.8	t=0.9
	LS	H Appr	ox		
RCV1	7.8	4.3	2.25	0.8	0.04
WikiWords100K	4.7	3.6	1	0.3	0.02
WikiWords500K	8.3	5.7	2.9	0.9	0.1
WikiLinks	-	-	1.6	0.4	0.06
Orkut	-	-	-	-	0.007
Twitter	4	5.1	2.6	0.4	0.02
	LSH -	+ Bayes	LSH		
RCV1	3.2	2.9	3.2	2	1.4
WikiWords100K	2.7	2.3	3.5	4.9	2.2
WikiWords500K	3.4	3.4	3.2	2.9	2.1
WikiLinks	2.96	2.82	2.3	2	1.6
Orkut	-	-	1.5	0.6	0.09
Twitter	2.3	4	3.1	4.8	4.3

(File No. 1-10042)

Exhibit 4.2 to Form 8-K dated Jun (File No. 1-10042)

Exhibit 4.2 to Form 8-K da (File No. 1-10042)

moderately associat LBP (OR ≥ I=1.2-)

ſ	
	Period(1)
Н	anuary 1, 2010 – Janu
	ebruary 1, 2010 – Feb 2010
	March 1, 2010 - March
Н	april 1, 2010 – April 3 May 1, 2010 – May 31
Т	une 1, 2010 - June 30 uly 1, 2010 - July 31,
Н	August 1, 2010 – Augu September 1, 2010 – S
U	2010
п	October 1, 2010 – Octo November 1, 2010 – N
П	2010
	2010
Н	otal
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1	
ĺ	
Į	id
	Commercial paper and short-term
	short-term obligations
	short-term
	short-term obligations Weighted average interest rate ertificates of deposit
	short-term obligations Weighted average interest rate ertificates of deposit Weighted average interest
	short-term obligations Weighted average interest rate crtificates of deposit weighted average interest rate corporate notes and
	short-term obligations weighted average interest rate criticates of deposit weighted average interest rate corporate notes and
	short-term obligations weighted average interest rate criticates of deposit weighted average interest rate corporate notes and bonds weighted average interest rate
	short-term obligations weighted average interest rate critificates of deposit weighted average interest rate corporate notes and bonds weighted average interest rate average interest rate
	short-term obligations weighted average interest rate criticates of deposit weighted average interest rate corporate notes and bonds weighted average interest rate

rate

marketable fixed-

			(b)					
kt) rry 1, 2010 – January 31, 2010			(a) Total Number of Shares Purchased(2) 71,900		(b) Average Price Paid per Share(3)		er of hased blicly Plans is(4)	Value) of Shares the May Yet be Purchas	
					5.26	71,90	10	\$ 31,810,670	
iary 1, 2010 – February 28, 10			47,220		1.95	547,220		\$ 18,160,154	
h 1, 2010 – March			15,000		9.62	215,00			1,791,630
1, 2010 - April 3			60,970		2.98	160,97			5,483,199
1, 2010 - May 31,			09,800		8.54	209,80			8,398,017
1, 2010 - June 30, 1, 2010 - July 31,			66,155 16,650		1.95	166,13			1,377,355 5,483,320
			91,700		1.95	291,70			4,247,804
sst 1, 2010 - August 31, 2010 ember 1, 2010 - September 30,		7	13,700	•	0.40	113,700		\$118,630,878	
per 1, 2010 – October 31, 2010			263,900		\$46.08		263,900		5,470,855
mber 1, 2010 – November 30, 10 . mber 1, 2010 – December 31,		7	122,800 172,800		\$49.55 \$50.04		10	\$100,386,042 \$ 91,738,968	
] 1					10		
		2.4	52,595	S3.	7.49	2,452,59	95	_	
	2005	2006	2007	2008	2009	Thereafter	1	otal	Fair Value of December 3 2004
nercial paper and rt-term gations	\$ 122,073					,	S I	22.073	\$ 124,21
ted average interest							3 .	2.10%	
cates of deposit	496,412				_	_		96.412	496.41
ted average interest	2.52%							2.52%	
rate notes and	2.327				_	•			
ds	240,213	3,760	2,900	8,000	13,390		- 2	68,263	275,05
ted average interest	2.25%	3.45%	4.00%	4.00%	4.009			2.43%	
backed and agency critics	136,202	134,754	21,127	21,570	8,500			22,153	323,24
ted average interest	2.32%	4.01%	3,58%	3.00%	3.009			3.17%	

11	VIKIWOIGSTOOK	2.1	2.3	0.0	4.9	2.2				
1	VikiWords500K	3.4	3.4	3.2	2.9	2.1	Ī			
Ħ	WikiLinks	2.96	2.82	2.3	2	1.6	ľ			
t	Orkut	-	-	1.5	0.6	0.09	ľ			
t	Twitter	2.3	4	3.1	4.8	4.3				
xhihi umbe	t r Des	Description								
	Plan of Acquisition, Re	─ ↑								
	Arrangement, Liquida									
2.1	Membership Interest F and between Atmos Ei Seller and CenterPoint Buyer, dated as of Oct	nergy Holdings Energy Servic ober 29, 2016	s, Inc. as es, Inc. as	Exhibit 2.1 to Fo (File No. 1-100)		Jetober 29, 20	1			
	Articles of Incorporati			rodubared late to	ome HVA detect	March II				
5.1	Restated Articles of In Energy Corporation — Effective February 3, 2	Texas (As Ar		Exhibit 3.1 to Form 8-K dated September 28,						
3.2	Restated Articles of In Energy Corporation — Effective February 3, 2	- Virginia (As .								
3.3	Amended and Restated Energy Corporation (a									
	Instruments Defining I Holders, Including Inc		ity							
4.1	Specimen Common St Energy Corporation)			Exhibit 4.1 to For September 30, 2			Ī			
4.2	Indenture dated as of ? between United Cities of America Illinois, Tr	Gas Company		Exhibit 4.11(a) to Form S-3 dated August 31, 2004 (File No. 333-118706)						
4.3	Atmos Energy Corpor	Indenture dated as of July 15, 1998 between Atmos Energy Corporation and U.S. Bank Trust National Association, Trustee								
4.4	Indenture dated as of M Atmos Energy Corpora Trustee	ation and SunT	rust Bank,							
4.5	Atmos Energy Corpor National Association,	Indenture dated as of June 14, 2007, between Atmos Energy Corporation and U.S. Bank National Association, Trustee				une 11, 2007				
4.6	Indenture dated as of P Atmos Energy Corpora National Corporation,	ation and U.S. Trustee	Bank	Exhibit 4.1 to F (File No. 1-100)	12)					
4.7(a	Debenture Certificate : Debentures due 2028	for the 6 3/4%		Exhibit 99.2 to l (File No. 1-100)		July 22, 1998				
4.7(t	Global Security for the 2034	5.95% Senior		Exhibit 10(2)(g) ended Septembe	er 30, 2004 (File	No. 1-10042)	_			
4.7(c	Global Security for the	8.50% Senior	Notes due	Exhibit 4.2 to F	orm 8-K dated !	March 26, 200	9			

2019

11.845

2.43% 2.87% 3.189 3.00% 3.00%