Results

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1: GO: Molecular Function [Display Chart] 218 input genes in category / 708 annotations before applied cutoff / 19963 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	GO:0030280	structural constituent of skin epidermis		3.519E- 11	2.492E- 8	1.779E- 7	2.492E-8	10	44
2	GO:0005200	structural constituent of cytoskeleton		1.616E- 10	5.722E- 8	4.086E- 7	1.144E-7	14	130
3	GO:0005509	calcium ion binding		7.664E-9	1.809E- 6	1.292E- 5	5.426E-6	29	777
4	GO:0005198	structural molecule activity		1.172E-8	2.074E- 6	1.481E- 5	8.296E-6	31	892
Ę	GO:0005298	proline:sodium symporter activity		6.859E-8	9.713E- 6	6.935E- 5	4.856E-5	4	5

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2: GO: Biological Process [Display Chart] 217 input genes in category / 4577 annotations before applied cutoff / 20720 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
	GO:0030855	epithelial cell differentiation		9.160E-31	4.193E-27	3.776E-26	4.193E-27	63	1051
	GO:0008544	epidermis development		5.118E-28	1.171E-24	1.055E-23	2.343E-24	44	500
:	GO:0060429	epithelium development		2.359E-26	3.599E-23	3.242E-22	1.080E-22	78	1979
4	GO:0009913	epidermal cell differentiation		6.770E-24	7.060E-21	6.358E-20	3.099E-20	34	331
4	GO:0030216	keratinocyte differentiation		7.712E-24	7.060E-21	6.358E-20	3.530E-20	28	195

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3: GO: Cellular Component [Display Chart] 217 input genes in category / 449 annotations before applied cutoff / 20932 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	GO:0001533	cornified envelope		9.921E-31	4.454E-28	2.978E-27	4.454E-28	24	69
2	GO:0005902	microvillus		1.221E-8	2.742E-6	1.833E-5	5.484E-6	12	131
3	GO:0045177	apical part of cell		2.922E-8	4.373E-6	2.923E-5	1.312E-5	23	569
4	GO:0016324	apical plasma membrane		8.754E-8	9.826E-6	6.569E-5	3.931E-5	20	464
5	GO:0098590	plasma membrane region		2.425E-7	2.178E-5	1.456E-4	1.089E-4	38	1498

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4: Human Phenotype [Display Chart] 90 input genes in category / 2969 annotations before applied cutoff / 5060 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	HP:0001805	Onychogryposis		1.248E-10	1.909E-7	1.637E-6	3.705E-7	9	24
2	HP:0007446	Palmoplantar blistering		1.387E-10	1.909E-7	1.637E-6	4.117E-7	7	11
3	HP:0001035	Abnormality of keratinization		1.929E-10	1.909E-7	1.637E-6	5.728E-7	22	250
4	HP:0008404	Nail dystrophy		3.808E-10	2.826E-7	2.423E-6	1.131E-6	16	126
5	HP:0000982	Palmoplantar keratoderma		5.589E-10	3.226E-7	2.766E-6	1.659E-6	17	149

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5: Mouse Phenotype [Display Chart] 173 input genes in category / 3493 annotations before applied cutoff / 12941 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	MP:0001240	abnormal epidermis stratum corneum morphology		1.489E- 11	5.202E- 8	4.544E- 7	5.202E-8	16	129
2	MP:0001216	abnormal epidermal layer morphology		4.978E- 11	8.694E- 8	7.595E- 7	1.739E-7	21	264
3	MP:0005381	digestive/alimentary phenotype		1.018E- 10	1.186E- 7	1.036E- 6	3.557E-7	49	1391
4	MP:0000764	abnormal tongue epithelium morphology		3.585E- 10	3.130E- 7	2.735E- 6	1.252E-6	8	23
5	MP:0002796	impaired skin barrier function		4.990E- 10	3.486E- 7	3.045E- 6	1.743E-6	11	62

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6: Domain [Display Chart] 218 input genes in category / 1235 annotations before applied cutoff / 18678 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	IPR018039	Intermediate filament CS	InterPro	1.539E-10	1.900E-7	1.462E-6	1.900E-7	11	63
2	SM01391	Filament	SMART	5.896E-10	2.479E-7	1.908E-6	7.282E-7	11	71
3	PS00226	IF	PROSITE	6.889E-10	2.479E-7	1.908E-6	8.508E-7	11	72
4	PF00038	Filament	Pfam	8.029E-10	2.479E-7	1.908E-6	9.916E-7	11	73
5	IPR001664	IF	InterPro	1.253E-9	3.096E-7	2.383E-6	1.548E-6	11	76

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7: Pathway [Display Chart] 178 input genes in category / 1304 annotations before applied cutoff / 13609 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	1457790	Keratinization	BioSystems: REACTOME	5.622E- 16	7.331E- 13	5.682E- 12	7.331E-13	24	214
2	1457791	Formation of the cornified envelope	BioSystems: REACTOME	3.224E- 13	2.102E- 10	1.629E- 9	4.205E-10	14	71
3	M5885	Ensemble of genes encoding ECM-associated proteins including ECM-affilaited proteins, ECM regulators and secreted factors	MSigDB C2 BIOCARTA (v7.5.1)	2.641E- 9	1.148E- 6	8.899E- 6	3.444E-6	32	751
4	M5889	Ensemble of genes encoding extracellular matrix and extracellular matrix-associated proteins	MSigDB C2 BIOCARTA (v7.5.1)	3.865E- 8	1.260E- 5	9.765E- 5	5.040E-5	36	1026
5	1270302	Developmental Biology	BioSystems: REACTOME	1.340E- 7	3.494E- 5	2.708E- 4	1.747E-4	36	1078

Show 26 more annotations

8: Pubmed [Display Chart] 223 input genes in category / 47210 annotations before applied cutoff / 44761 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	32989256	Suppression of DDX39B sensitizes ovarian cancer cells to DNA-damaging chemotherapeutic agents via destabilizing BRCA1 mRNA.	Pubmed	3.401E- 31	1.606E- 26	1.821E- 25	1.606E-26	23	107
2	19199708	Proteomic analysis of human parotid gland exosomes by multidimensional protein identification technology (MudPIT).	Pubmed	1.122E- 25	2.648E- 21	3.002E- 20	5.296E-21	30	417
3	31220272	Altered keratinocyte differentiation is an early driver of keratin mutation-based palmoplantar keratoderma.	Pubmed	7.826E- 22	1.232E- 17	1.396E- 16	3.695E-17	15	60
4	26644517	A keratin scaffold regulates epidermal barrier formation, mitochondrial lipid composition, and activity.	Pubmed	1.357E- 21	1.602E- 17	1.816E- 16	6.407E-17	15	62
5	23376485	Proteomic analysis of podocyte exosome-enriched fraction from normal human urine.	Pubmed	1.961E- 21	1.851E- 17	2.099E- 16	9.256E-17	47	1744

Show 45 more annotations

9: Interaction [Display Chart] 217 input genes in category / 9028 annotations before applied cutoff / 19896 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
•	int:CCR1	CCR1 interactions		2.773E-24	2.504E-20	2.425E-19	2.504E-20	36	360
2	int:SSUH2	SSUH2 interactions		6.728E-22	3.037E-18	2.941E-17	6.074E-18	27	199
3	int:C18orf21	C18orf21 interactions		3.046E-21	9.166E-18	8.877E-17	2.750E-17	24	151
4	int:OR2A4	OR2A4 interactions		2.225E-20	5.022E-17	4.864E-16	2.009E-16	23	145
ţ	int:PPP2R2B	PPP2R2B interactions		5.751E-20	1.038E-16	1.006E-15	5.192E-16	27	235

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10: Cytoband [Display Chart] 221 input genes in category / 173 annotations before applied cutoff / 33040 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	1q21-q22	1q21-q22		7.681E-9	1.329E-6	7.618E-6	1.329E-6	6	23
2	1q21	1q21		1.862E-7	1.611E-5	9.236E-5	3.222E-5	8	91
3	12q13.13	12q13.13		8.820E-5	5.086E-3	2.916E-2	1.526E-2	5	67
4	18q12.1	18q12.1		6.851E-4	2.963E-2	1.699E-1	1.185E-1	3	26

11: Transcription Factor Binding Site [Display Chart] 211 input genes in category / 850 annotations before applied cutoff / 26918 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	TGANTCA V\$AP1 C	TGANTCA V\$AP1 C	TFBS	8.478E- 15	7.206E- 12	5.277E- 11	7.206E-12	35	918
2	TATAAA V\$TATA 01	TATAAA V\$TATA 01	TFBS	7.940E- 11	3.374E-8	2.471E-7	6.749E-8	32	1070
3	CAGGTG V\$E12 Q6	CAGGTG V\$E12 Q6	TFBS	4.693E-7	1.145E-4	8.386E-4	3.989E-4	37	1950
4	M29981	GREB1 TARGET GENES	MSigDB	5.389E-7	1.145E-4	8.386E-4	4.580E-4	24	954
5	M29941	DLX2 TARGET GENES	MSigDB	3.435E-6	5.839E-4	4.276E-3	2.920E-3	12	290

Show 10 more annotations

12: Gene Family [Display Chart] 157 input genes in category / 104 annotations before applied cutoff / 18084 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	1353	Small proline rich proteins	genenames.org	1.734E- 10	1.803E- 8	9.425E- 8	1.803E-8	6	11
2	648	Mucins	genenames.org	8.416E- 7	2.917E- 5	1.525E- 4	8.752E-5	5	21
3	459	S100 calcium binding proteins EF-hand domain containing	genenames.org	8.416E- 7	2.917E- 5	1.525E- 4	8.752E-5	5	21
4	609	Keratins, type II	genenames.org	3.201E- 6	8.049E- 5	4.207E- 4	3.329E-4	5	27
5	608	Keratins, type I	genenames.org	3.870E- 6	8.049E- 5	4.207E- 4	4.025E-4	5	28

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13: Coexpression [Display Chart] 222 input genes in category / 8464 annotations before applied cutoff / 26258 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	M40299	DESCARTES FETAL STOMACH SQUAMOUS EPITHELIAL CELLS	MSigDB C8: Cell Type Signatures (v7.5.1)	5.737E- 47	4.856E- 43	4.672E- 42	4.856E-43	31	67
2	20421987- TableS4	Human Lung Hou10 518genes	GeneSigDB	1.736E- 43	7.346E- 40	7.068E- 39	1.469E-39	49	380
3	20421987- TableS5	Human Lung Hou10 75genes	GeneSigDB	1.257E- 41	3.546E- 38	3.411E- 37	1.064E-37	27	56
4	M10702	JAEGER METASTASIS DN	MSigDB C2: CGP Curated Gene Sets (v7.5.1)	4.346E- 40	7.571E- 37	7.284E- 36	3.678E-36	41	259

5 M40004	BUSSLINGER ESOPHAGEAL LATE	MSigDB C8: Cell Type	4.472E-	7.571E-	7.284E-	3.785E-36	34	140
	SUPRABASAL CELLS	Signatures (v7.5.1)	40	37	36			

Show 45 more annotations

14: Coexpression Atlas [Display Chart] 222 input genes in category / 3320 annotations before applied cutoff / 21235 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	esophagus	esophagus	Human Protein Atlas	2.388E- 67	7.930E- 64	6.887E- 63	7.930E-64	61	247
2	PCBC ctl BronchioEpithel 500	Progenitor-Cell-Biology-Consortium reference BronchioEpithel top-relative-expression-ranked 500	PCBC	4.662E- 65	7.740E- 62	6.722E- 61	1.548E-61	74	496
3	PCBC ctl BronchioEpithel 1000	Progenitor-Cell-Biology-Consortium reference BronchioEpithel top-relative-expression-ranked 1000	PCBC	2.924E- 56	3.236E- 53	2.811E- 52	9.709E-53	86	990
4	PCBC ctl BronchioEpithel 100	Progenitor-Cell-Biology-Consortium reference BronchioEpithel top-relative-expression-ranked 100	PCBC	3.406E- 52	2.827E- 49	2.455E- 48	1.131E-48	39	98
5	PCBC ctl SmallAirwayEpithel 500	Progenitor-Cell-Biology-Consortium reference SmallAirwayEpithel top-relative-expression-ranked 500	PCBC	5.124E- 48	3.402E- 45	2.955E- 44	1.701E-44	61	493

Show 45 more annotations

15: ToppCell Atlas [Display Chart] 222 input genes in category / 22098 annotations before applied cutoff / 45195 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	eb18aa179db1818f408c38e442ecfed8582d7dbc	TCGA-Head and Esophagus World / Sample Type by Project: Shred V9	TCGA OncoMap	3.836E- 107	8.477E- 103	8.969E- 102	8.477E- 103	65	172
2	3188c7bd225cbcf46a21e2fb784336cdd9665995	TCGA-Skin- Primary Tumor- Melanoma-Skin Cutaneous Melanoma TCGA- Skin / Sample Type by Project: Shred V9	TCGA OncoMap	8.204E- 89	4.532E- 85	4.795E- 84	1.813E-84	58	190
3	e2b26a03c6ab24d9b0f4150c47597be37767d86e	TCGA-Skin- Primary Tumor TCGA- Skin / Sample Type by Project: Shred V9	TCGA OncoMap	8.204E- 89	4.532E- 85	4.795E- 84	1.813E-84	58	190
4	01fb45add4661bc86cd0a34fac35177907152dbb	TCGA-Skin- Primary Tumor- Melanoma TCGA- Skin / Sample Type by Project: Shred V9	TCGA OncoMap	8.204E- 89	4.532E- 85	4.795E- 84	1.813E-84	58	190
5	6a12b802cb181f979ebc72674f3626fb855024e3	TCGA-Stomach- Primary Tumor- Stomach Adenocarcinoma- Stomach Adenocarcinoma - NOS-4 TCGA- Stomach / Sample Type by Project: Shred V9	TCGA OncoMap	7.789E- 85	3.443E- 81	3.642E- 80	1.721E-80	54	163

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16: Computational [Display Chart] 143 input genes in category / 346 annotations before applied cutoff / 10012 genes in category

1	M4992 MODULE 297	Genes in the cancer module 297.	MSigDb: C4 - CM: Cancer Modules (v7.2)	6.531E- 23	1.130E- 20	7.260E- 20	2.260E-20	22	80
2	M9185 MODULE 357	Intermediate filaments and keratins.	MSigDb: C4 - CM: Cancer Modules (v7.2)	6.531E- 23	1.130E- 20	7.260E- 20	2.260E-20	22	80
3	M2266 GNF2 SPRR1B	Neighborhood of SPRR1B	MSigDb: C4 - CGN: Cancer Gene Neighborhood (v7.2)	1.336E- 20	1.541E- 18	9.899E- 18	4.622E-18	14	24
4	M18170 MODULE 154	Intermediate filaments.	MSigDb: C4 - CM: Cancer Modules (v7.2)	3.753E- 19	3.246E- 17	2.086E- 16	1.298E-16	19	75
5	M18849 MODULE 153	Genes in the cancer module 153.	MSigDb: C4 - CM: Cancer Modules (v7.2)	1.894E- 14	1.088E- 12	6.992E- 12	6.554E-12	12	34

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17: MicroRNA [Display Chart] 223 input genes in category / 8136 annotations before applied cutoff / 59110 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	hsa-miR-3120:mirSVR highEffct	hsa-miR-3120:mirSVR nonconserved highEffect-0.5	MicroRNA.org	9.690E- 11	5.927E- 7	5.678E- 6	7.884E-7	30	1962
2	hsa-miR-26b- 5p:Functional MTI (Weak)	Functional MTI (Weak)	miRTarbase	1.535E- 10	5.927E- 7	5.678E- 6	1.249E-6	29	1873
3	hsa-miR-1251:mirSVR lowEffct	hsa-miR-1251:mirSVR nonconserved lowEffect-0.1-0.5	MicroRNA.org	2.545E- 10	5.927E- 7	5.678E- 6	2.071E-6	22	1093
4	hsa-miR-30c:mirSVR highEffct	hsa-miR-30c:mirSVR conserved highEffect-0.5	MicroRNA.org	3.529E- 10	5.927E- 7	5.678E- 6	2.871E-6	29	1942
5	hsa-miR-558:mirSVR lowEffct	hsa-miR-558:mirSVR nonconserved lowEffect-0.1-0.5	MicroRNA.org	4.786E- 10	5.927E- 7	5.678E- 6	3.894E-6	26	1591

Show 45 more annotations

18: Drug [Display Chart] 222 input genes in category / 21168 annotations before applied cutoff / 22767 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	ctd:C002202	4-oxoretinoic acid	CTD	1.308E-19	2.769E-15	2.918E-14	2.769E-15	20	115
2	ctd:D004054	Diethylstilbestrol	CTD	1.454E-18	1.539E-14	1.622E-13	3.078E-14	52	1304
3	ctd:C103303	alitretinoin	CTD	2.570E-16	1.814E-12	1.911E-11	5.441E-12	25	300
4	ctd:D012906	Smoke	CTD	4.966E-16	2.628E-12	2.770E-11	1.051E-11	41	937
5	ctd:D019324	beta-Naphthoflavone	CTD	1.316E-12	5.571E-9	5.870E-8	2.785E-8	34	829

Show 45 more annotations

19: Disease [Display Chart] 210 input genes in category / 5763 annotations before applied cutoff / 19383 genes in category

	ID	Name	Source	pValue	FDR B&H	FDR B&Y	Bonferroni	Genes from Input	Genes in Annotation
1	C0004763	Barrett Esophagus	DisGeNET BeFree	3.654E- 12	2.106E- 8	1.945E- 7	2.106E-8	26	450
2	C0334037	Intestinal metaplasia	DisGeNET BeFree	1.207E- 11	3.477E- 8	3.212E- 7	6.954E-8	20	266
3	C1832097	EPIDERMAL DIFFERENTIATION COMPLEX	DisGeNET BeFree	2.151E- 10	4.132E- 7	3.817E- 6	1.240E-6	9	38
4	C1608408	Malignant transformation	DisGeNET BeFree	3.939E- 10	5.675E- 7	5.241E- 6	2.270E-6	36	1027
5	C0870082	Hyperkeratosis	DisGeNET BeFree	6.070E- 10	6.997E- 7	6.463E- 6	3.498E-6	12	97

Show 45 more annotations