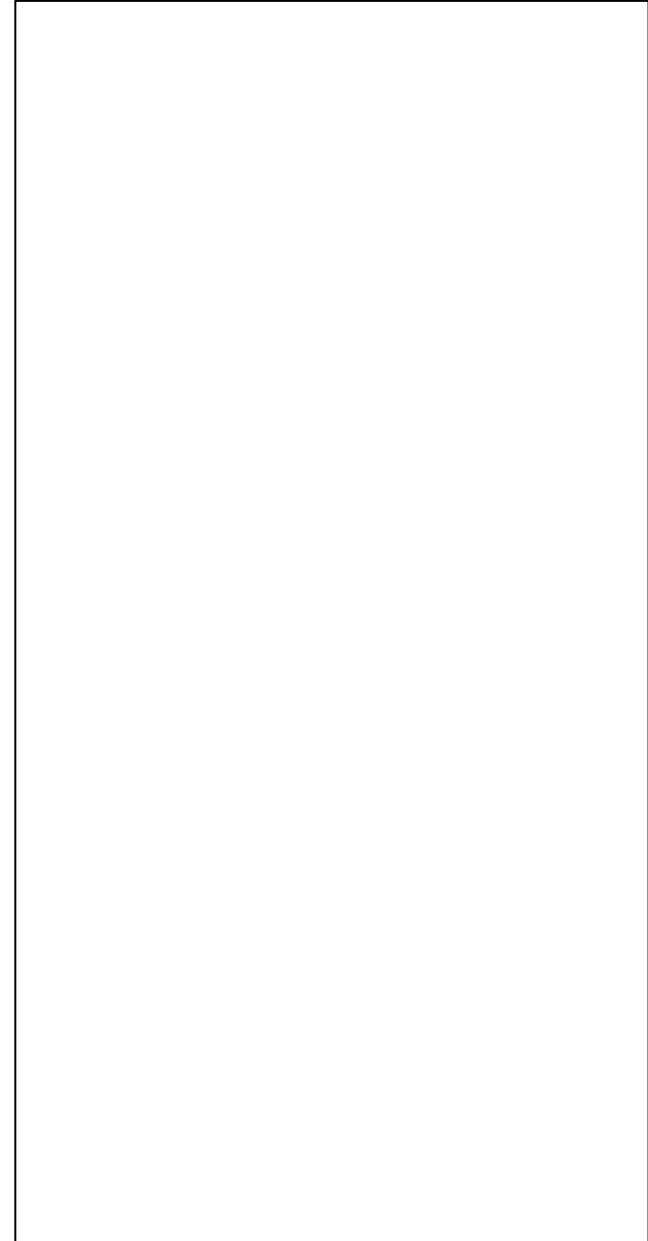
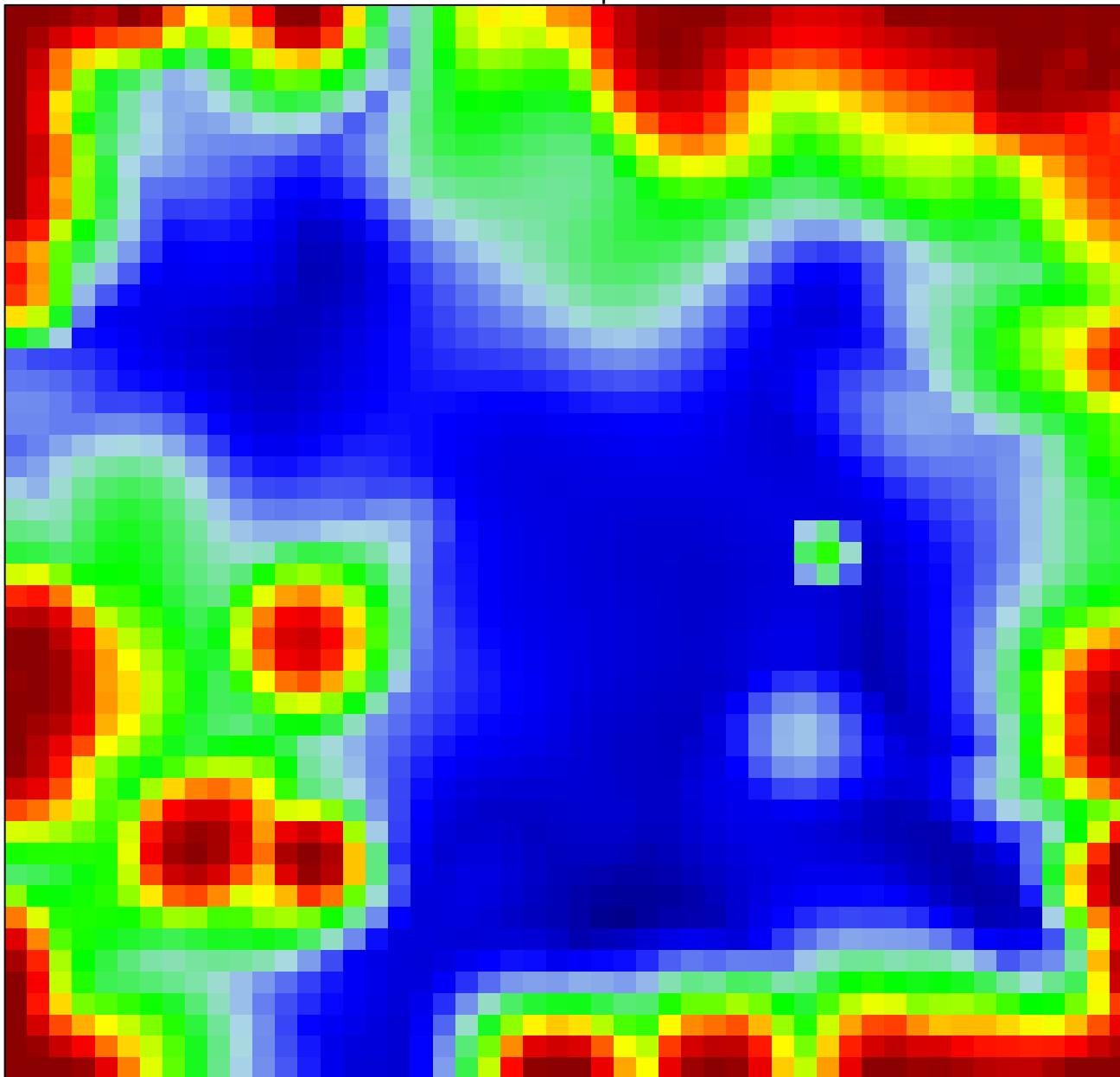
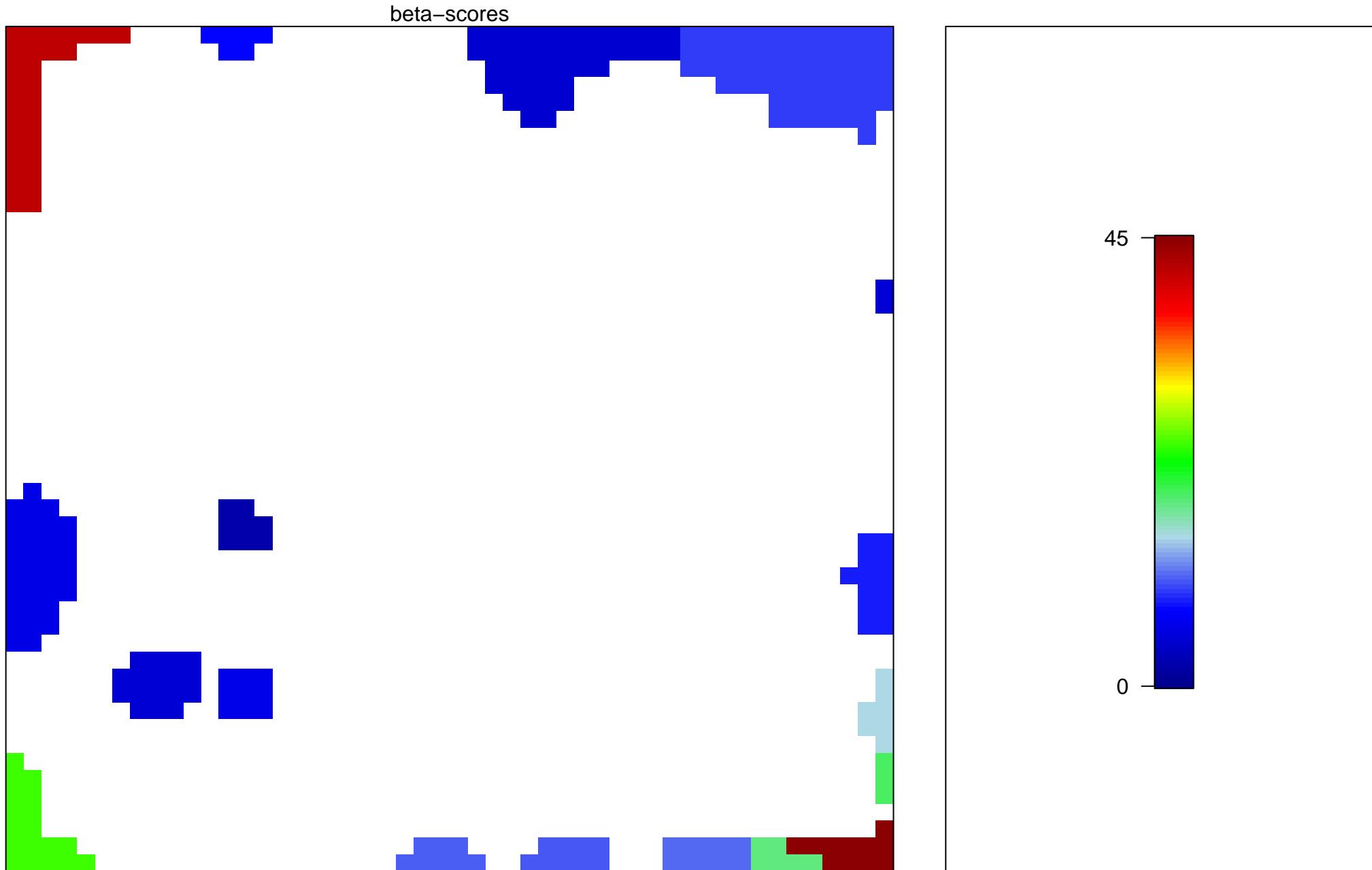


Sample-Overexpression

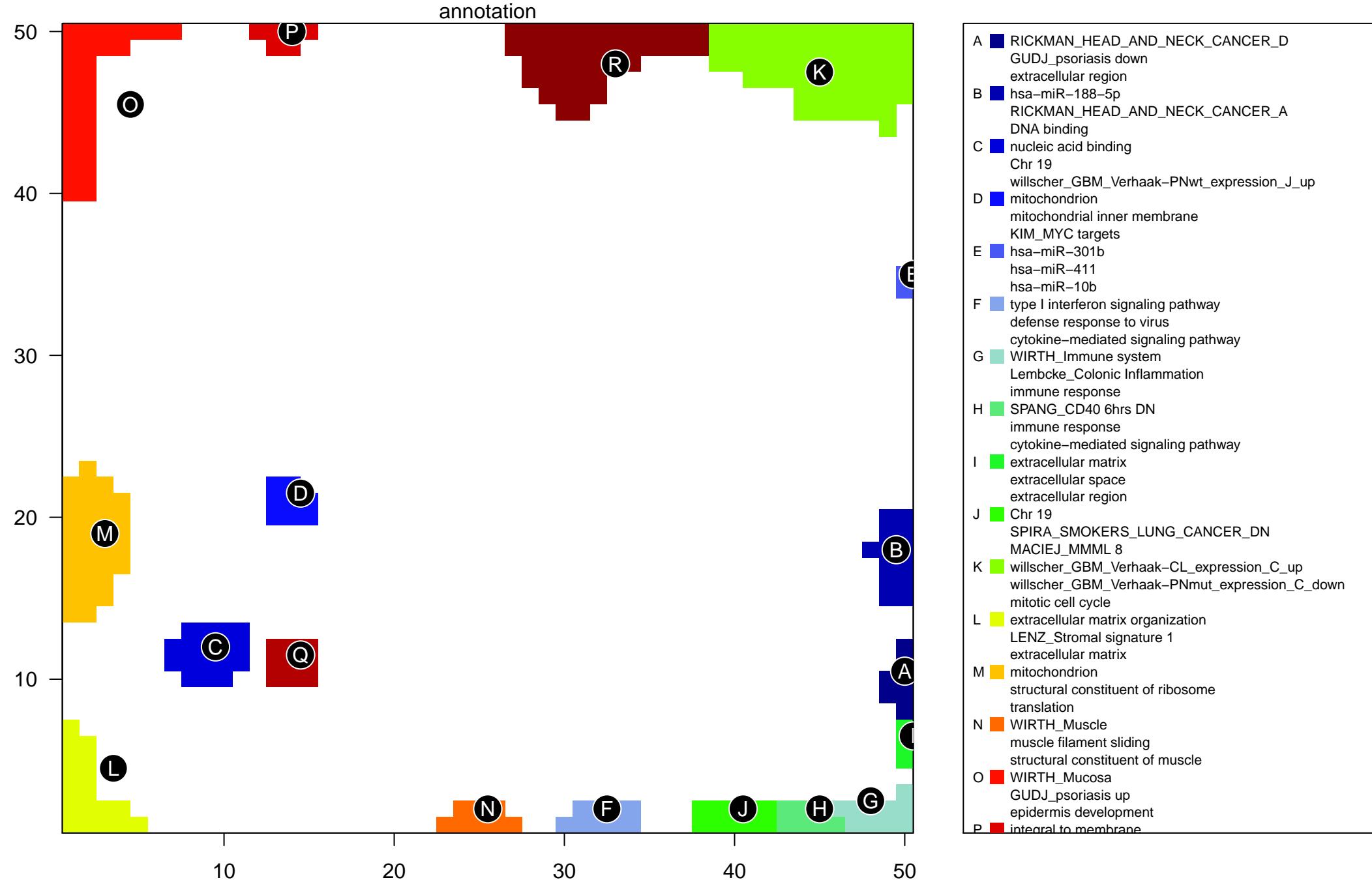
landscape



Sample-Overexpression

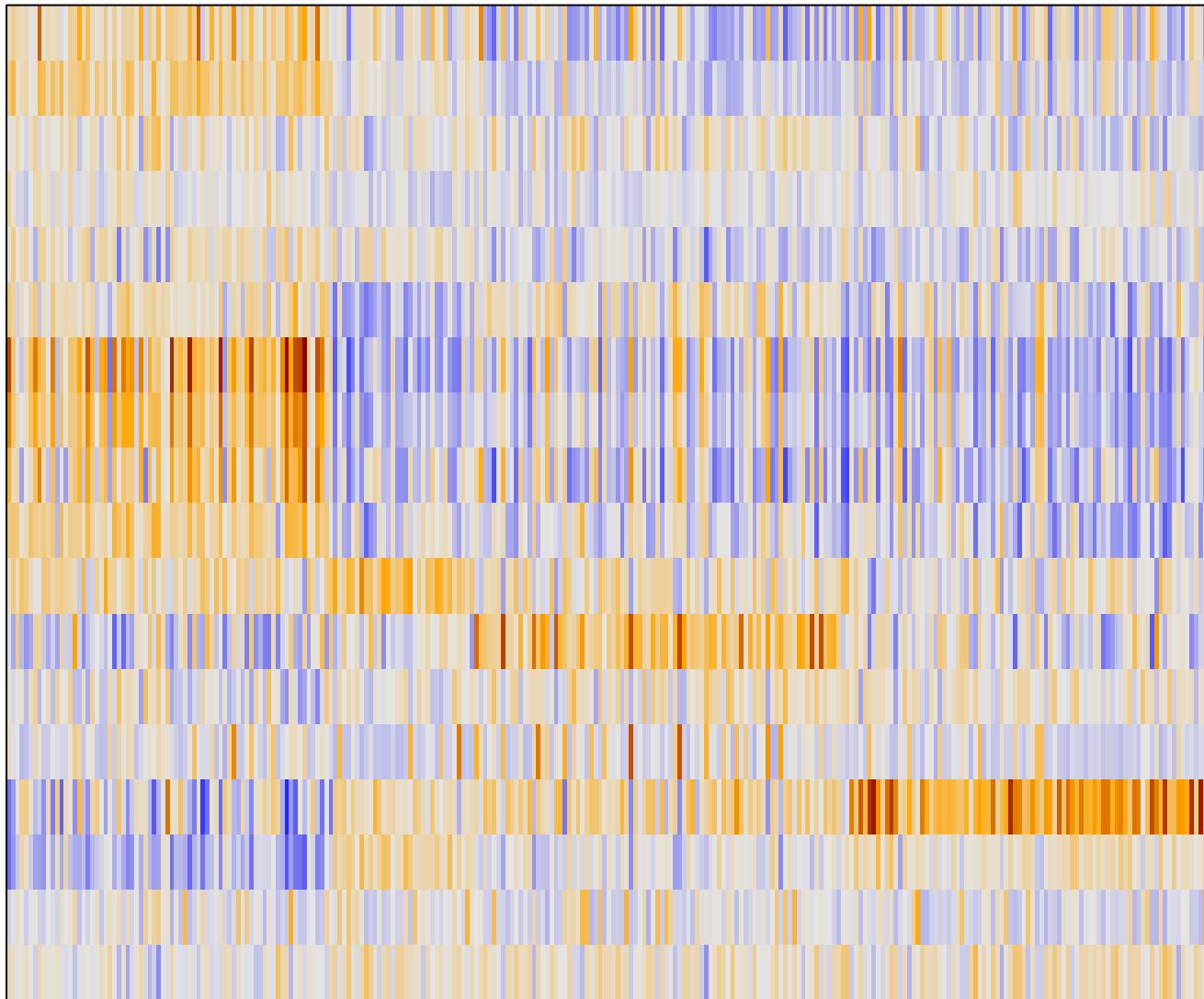


Sample-Overexpression

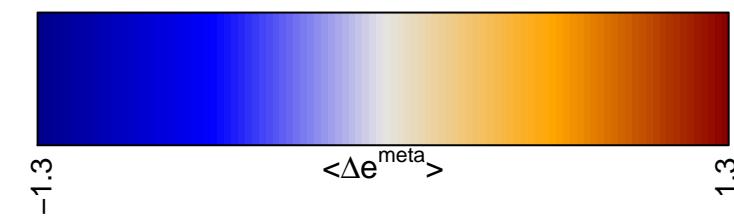




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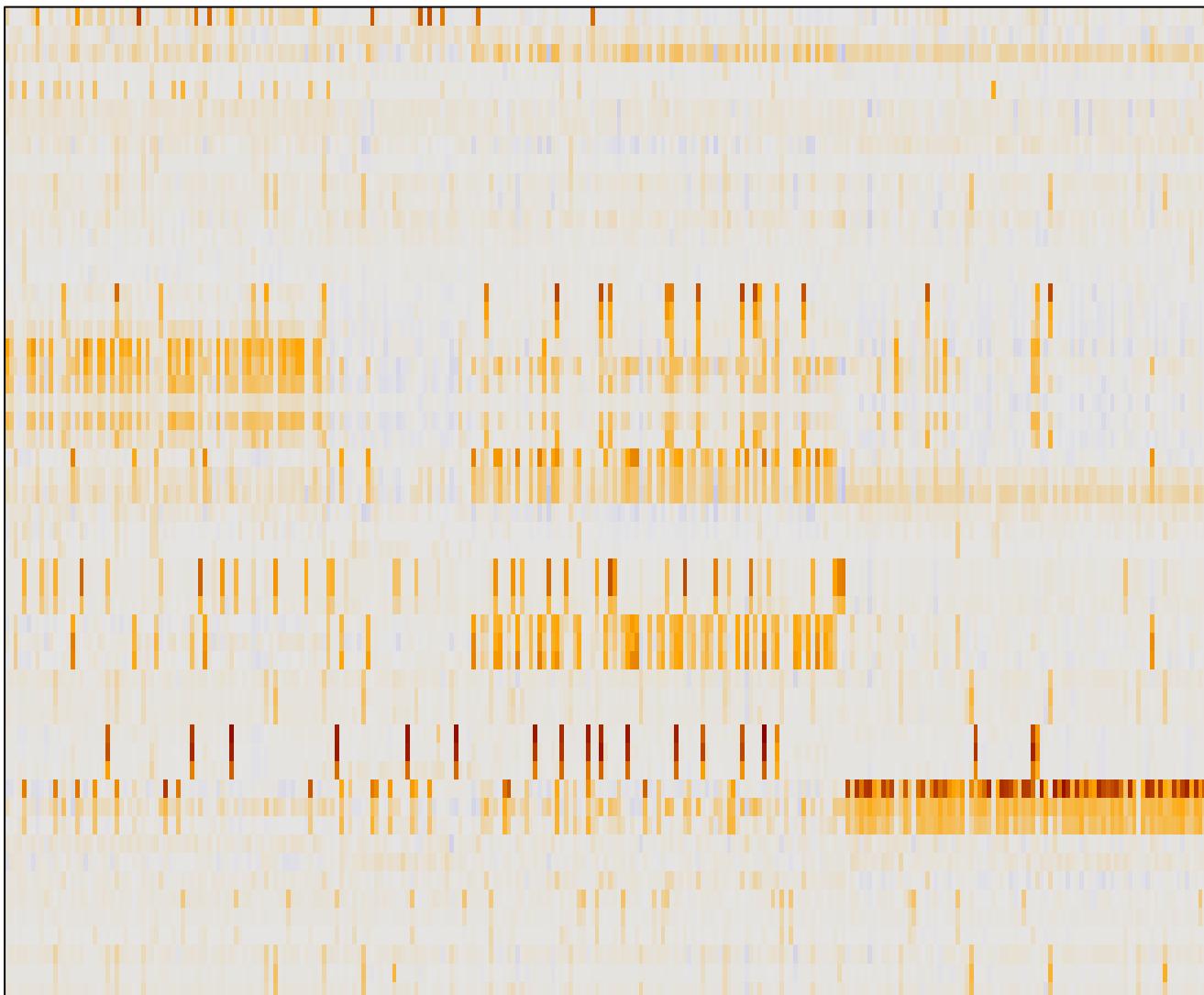


RICKMAN_HEAD_AND_NECK_CANCER_D
GUDJ_psoriasis down
extracellular region
hsa-miR-188-5p
RICKMAN_HEAD_AND_NECK_CANCER_A
DNA binding
nucleic acid binding
Chr 19
wilscher_GBM_Verhaak-PNwt_expression_J_up
mitochondrion
mitochondrial inner membrane
KIM_MYC targets
hsa-miR-301b
hsa-miR-411
hsa-miR-10b
type I interferon signaling pathway
defense response to virus
cytokine-mediated signaling pathway
WIRTH_Immune system
Lembcke_Colonic Inflammation
immune response
SPANG_CD40 6hrs DN
immune response
cytokine-mediated signaling pathway
extracellular matrix
extracellular space
extracellular region
Chr 19
SPIRA_SMOKERS_LUNG_CANCER_DN
MACIEJ_MMML 8
wilscher_GBM_Verhaak-CL_expression_C_up
wilscher_GBM_Verhaak-PNmut_expression_C_down
mitotic cell cycle
extracellular matrix organization
LENZ_Stromal signature 1
extracellular matrix
mitochondrion
structural constituent of ribosome
translation
WIRTH_Muscle
muscle filament sliding
structural constituent of muscle
WIRTH_Mucosa
GUDJ_psoriasis up
epidermis development
integral to membrane
oxidation-reduction process
modulation by virus of host morphology or physiology
Chr X
WIRTH_Testsis
MATTIOLI_MULTIPLE_MYELOMA_SUBGROUPS
mitochondrion
respiratory electron transport chain
translation

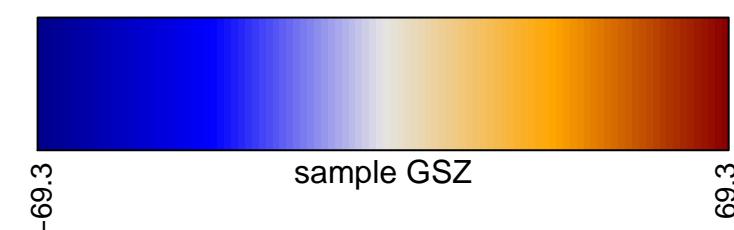




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RICKMAN_HEAD_AND_NECK_CANCER_D
GUDJ_psoriasis down
extracellular region
hsa-miR-188-5p
RICKMAN_HEAD_AND_NECK_CANCER_A
DNA binding
Chr 19
wilscher_GBM_Verhaak-PNwt_expression_J_up
mitochondrion
mitochondrial inner membrane
KIM_MYC targets
hsa-miR-301b
hsa-miR-411
hsa-miR-10b
type I interferon signaling pathway
defense response to virus
cytokine-mediated signaling pathway
WIRTH_Immune system
Lembcke_Colonic Inflammation
immune response
SPANG_CD40 6hrs DN
immune response
cytokine-mediated signaling pathway
extracellular matrix
extracellular space
extracellular region
Chr 19
SPIRA_SMOKERS_LUNG_CANCER_DN
MACIEJ_MMML 8
wilscher_GBM_Verhaak-CL_expression_C_up
wilscher_GBM_Verhaak-PNmut_expression_C_down
mitotic cell cycle
extracellular matrix organization
LENZ_Stromal signature 1
extracellular matrix
mitochondrion
structural constituent of ribosome
translation
WIRTH_Muscle
muscle filament sliding
structural constituent of muscle
WIRTH_Mucosa
GUDJ_psoriasis up
epidermis development
integral to membrane
oxidation-reduction process
modulation by virus of host morphology or physiology
Chr X
WIRTH_Testis
MATTOLI_MULTIPLE_MYELOMA_SUBGROUPS
mitochondrion
respiratory electron transport chain
translation



-69.3

sample GSZ

69.3

Sample–Overexpression

Spot Summary: A

metagenes = 7

genes = 126

<r> metagenes = 0.96

<r> genes = 0.32

beta: r2= 15.03 / log p= -Inf

samples with spot = 35 (12.7 %)

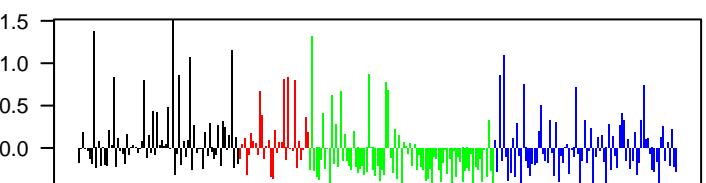
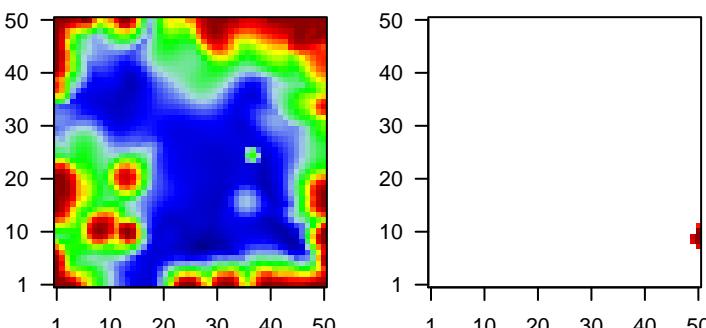
Atypical : 10 (13.5 %)

Classical : 6 (18.8 %)

Mesenchymal : 8 (9.4 %)

Basal : 11 (13.1 %)

Overview Map



Spot Genelist

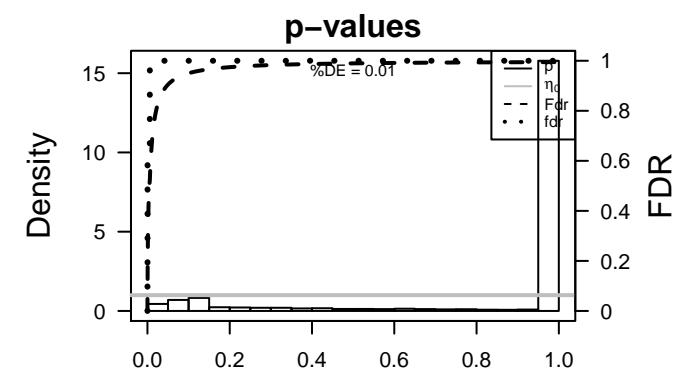
Rank	ID	max e	min e	r	Description	Symbol
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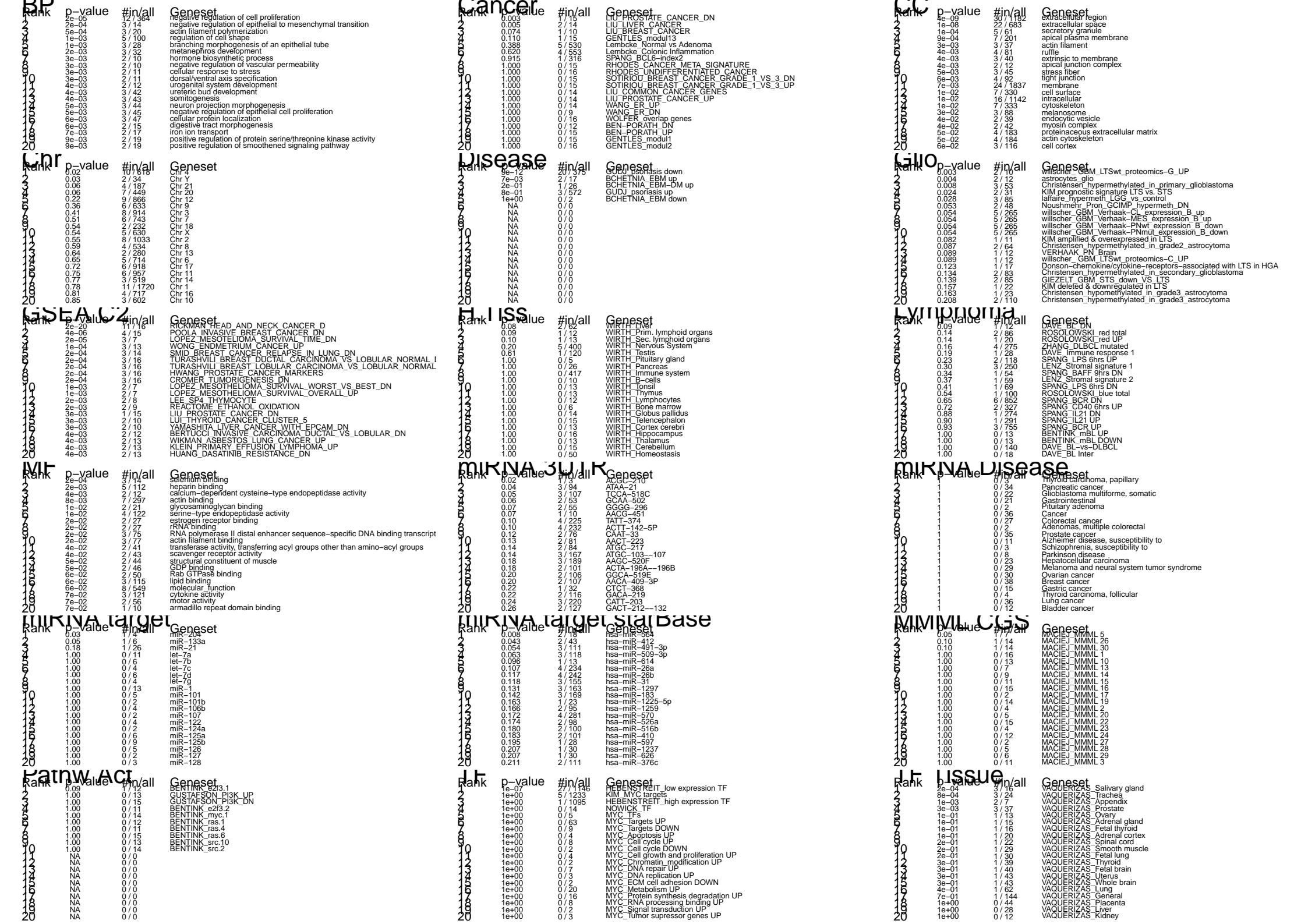
Rank	ID	max e	min e	r	Description	Symbol
1	92747	5.31	-1.24	0.64	BPIFB1	BPI fold containing family B, member 1 [Source:HGNC Symbol;Acc:8993]
2	11272	4.99	-1.08	0.67	PRR4	proline rich 4 (lacrimal) [Source:HGNC Symbol;Acc:18020]
3	7033	4.95	-1.78	0.72	TFF3	trefoil factor 3 (intestinal) [Source:HGNC Symbol;Acc:11757]
4	92304	4.22	-1.04	0.65	SCGB3A	secretoglobin, family 3A, member 1 [Source:HGNC Symbol;Acc:8993]
5	5304	4.06	-0.71	0.68	PIP	prolactin-induced protein [Source:HGNC Symbol;Acc:8993]
6	124220	3.67	-0.81	0.69	ZG16B	zymogen granule protein 16B [Source:HGNC Symbol;Acc:30-11757]
7	51297	3.63	-0.56	0.51	BPIFA1	BPI fold containing family A, member 1 [Source:HGNC Symbol;Acc:8993]
8	10232	3.46	-1.55	0.3	MSLN	mesothelin [Source:HGNC Symbol;Acc:7371]
9	4477	3.44	-0.83	0.46	MSMB	microseminoprotein, beta- [Source:HGNC Symbol;Acc:7372]
10	6422	3.44	-1.55	0.28	SFRP1	secreted frizzled-related protein 1 [Source:HGNC Symbol;Acc:8993]
11	10551	3.21	-1.32	0.59	AGR2	anterior gradient 2 [Source:HGNC Symbol;Acc:328]
12	80341	3.15	-0.53	0.63	BPIFB2	BPI fold containing family B, member 2 [Source:HGNC Symbol;Acc:8993]
13	352999	3.14	-0.47	0.51	C6orf58	chromosome 6 open reading frame 58 [Source:HGNC Symbol;Acc:8993]
14	7018	3.1	-1.18	0.68	TF	transferrin [Source:HGNC Symbol;Acc:11740]
15	8842	3.09	-1	0.64	PROM1	prominin 1 [Source:HGNC Symbol;Acc:9454]
16	389816	3.08	-1.05	0.77	LRRC26	leucine rich repeat containing 26 [Source:HGNC Symbol;Acc:8993]
17	5284	3.04	-0.77	0.69	PIGR	polymeric immunoglobulin receptor [Source:HGNC Symbol;Acc:8993]
18	124	3.01	-0.85	0.47	ADH1A	alcohol dehydrogenase 1A (class I), alpha polypeptide [Source:HGNC Symbol;Acc:2033]
19	9071	2.87	-1.22	0.64	CLDN10	claudin 10 [Source:HGNC Symbol;Acc:2033]
20	7103	2.85	-0.83	0.75	TSPAN8	tetraspanin 8 [Source:HGNC Symbol;Acc:11855]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
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Rank	p-value	#in/all	Geneset
1	2e-20	11 / 16	GSEA_RICKMAN_HEAD_AND_NECK_CANCER_D
2	9e-12	20 / 375	Disea_GUDJ_psoriasis down
3	4e-09	30 / 1182	CC_extracellular region
4	1e-08	22 / 683	CC_extracellular space
5	1e-07	27 / 1146	TF_HEBENSTREIT_low expression TF
6	4e-06	4 / 15	GSEA_POOLA_INVASIVE_BREAST_CANCER_DN
7	2e-05	3 / 7	GSEA_LOPEZ_MESOTHELIOMA_SURVIVAL_TIME_DN
8	2e-05	12 / 364	BP_negative regulation of cell proliferation
9	1e-04	5 / 61	CC_secretory granule
10	1e-04	3 / 13	GSEA_WONG_ENDOMETRIUM_CANCER_UP
11	2e-04	3 / 14	BP_negative regulation of epithelial to mesenchymal transition
12	2e-04	3 / 14	MF_selenium binding
13	2e-04	3 / 14	GSEA_SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN
14	2e-04	3 / 16	GSEA_TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_NORMAL
15	2e-04	3 / 16	GSEA_TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL
16	2e-04	3 / 16	GSEA_HWANG_PROSTATE_CANCER_MARKERS
17	2e-04	3 / 16	GSEA_CROMER_TUMORIGENESIS_DN
18	2e-04	3 / 16	TF_Ti_VAQUERIZAS_Salivary gland
19	5e-04	3 / 20	BP_actin filament polymerization
20	8e-04	3 / 24	TF_Ti_VAQUERIZAS_Trachea
21	9e-04	7 / 201	CC_apical plasma membrane
22	1e-03	5 / 100	BP_regulation of cell shape
23	1e-03	2 / 7	GSEA_LOPEZ_MESOTHELIOMA_SURVIVAL_WORST_VS_BEST_DN
24	1e-03	2 / 7	GSEA_LOPEZ_MESOTHELIOMA_SURVIVAL_OVERALL_UP
25	1e-03	2 / 7	TF_Ti_VAQUERIZAS_Appendix
26	1e-03	3 / 28	BP_branching morphogenesis of an epithelial tube
27	2e-03	2 / 8	GSEA_LEE_SP4_THYMOCYTE
28	2e-03	5 / 112	MF_heparin binding
29	2e-03	3 / 32	BP_metanephros development
30	2e-03	2 / 9	GSEA.REACTOME_ETHANOL_OXIDATION
31	3e-03	2 / 10	BP_hormone biosynthetic process
32	3e-03	2 / 10	BP_negative regulation of vascular permeability
33	3e-03	2 / 10	Glio_willscher_GBM_LTswt_proteomics-G_UP
34	3e-03	1 / 15	Canc_LIU_PROSTATE_CANCER_DN
35	3e-03	2 / 10	GSEA_LUL_THYROID_CANCER_CLUSTER_5
36	3e-03	2 / 10	GSEA_YAMASHITA_LIVER_CANCER_WITH_EPCAM_DN
37	3e-03	3 / 37	CC_actin filament
38	3e-03	3 / 37	TF_Ti_VAQUERIZAS_Prostate
39	3e-03	2 / 11	BP_cellular response to stress
40	3e-03	2 / 11	BP_dorsal/ventral axis specification





Sample–Overexpression

Spot Summary: B

metagenes = 13
genes = 198

<r> metagenes = 0.97

<r> genes = 0.34

beta: r2= 8.48 / log p= -Inf

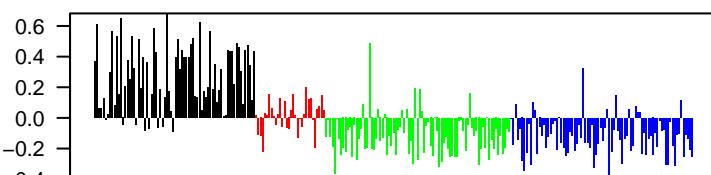
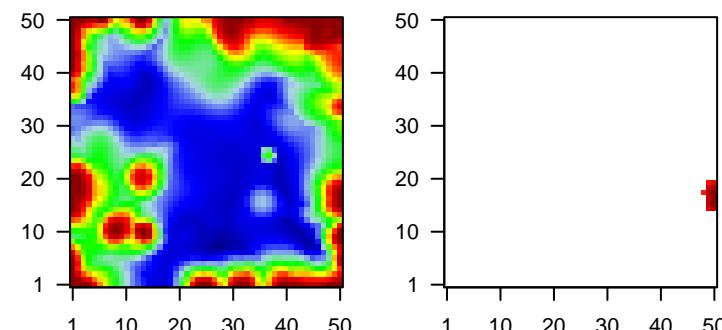
samples with spot = 38 (13.8 %)

Atypical : 36 (48.6 %)

Mesenchymal : 1 (1.2 %)

Basal : 1 (1.2 %)

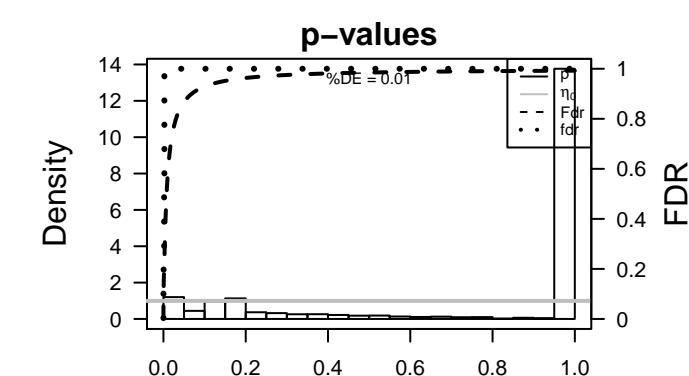
Overview Map

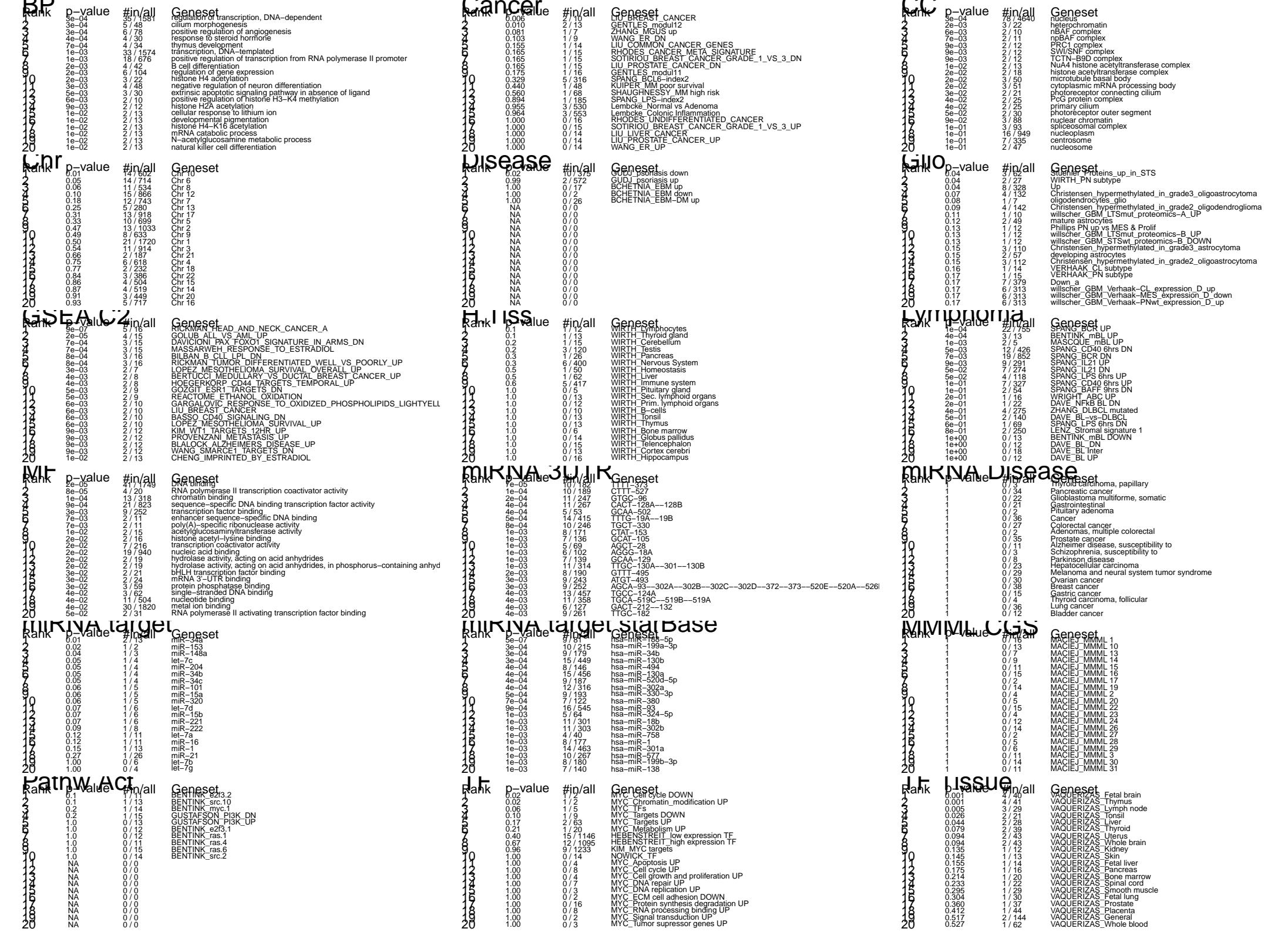


Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	54959	2.94	-0.58	0.36	ODAM	odontogenic, ameloblast associated [Source:HGNC Symbol;Acc:3169]	1	5e-07	9 / 81	miRN hsa-miR-188-5p
2	4602	2.8	-1.04	0.76	MYB	v-myb avian myeloblastosis viral oncogene homolog [Source:HGNC Symbol;Acc:3168]	2	9e-07	5 / 16	GSE/ RICKMAN_HEAD_AND_NECK_CANCER_A
3	728715	2.6	-1.25	0.5	RP11-726G1.1		3	2e-05	41 / 1749	MF DNA binding
4	83988	2.43	-1.29	0.53	NCALD	neurocalcin delta [Source:HGNC Symbol;Acc:7655]	4	2e-05	4 / 15	GSE/ GOLUB_ALL_VS_AML_UP
5	26002	2.42	-1.28	0.41	MOXDI	monoxygenase, DBH-like 1 [Source:HGNC Symbol;Acc:2104]	5	7e-05	10 / 182	miRN TTTT-373
6	1298	2.41	-1.14	0.55	COL9A2	collagen, type IX, alpha 2 [Source:HGNC Symbol;Acc:2218]	6	8e-05	4 / 20	MF RNA polymerase II transcription coactivator activity
7	6263	2.31	-0.72	0.41	RYR3	ryanodine receptor 3 [Source:HGNC Symbol;Acc:10485]	7	1e-04	10 / 189	miRN CTTT-527
8	10439	2.3	-1.77	0.44	OLFM1	olfactomedin 1 [Source:HGNC Symbol;Acc:17187]	8	1e-04	22 / 755	Lymph SPANG_BCR UP
9	399948	2.29	-0.65	0.68	COLCA1	colorectal cancer associated 1 [Source:HGNC Symbol;Acc:3734]	9	1e-04	13 / 318	MF chromatin binding
10	2248	2.21	-0.33	0.4	FGF3	fibroblast growth factor 3 [Source:HGNC Symbol;Acc:3681]	10	2e-04	11 / 247	miRN GTGC-96
11	6542	2.15	-1.11	0.53	SLC7A2	solute carrier family 7 (cationic amino acid transporter, y+ system)	11	3e-04	35 / 1581	BP regulation of transcription, DNA-dependent
12	21	2.13	-0.7	0.74	ABCA3	ATP-binding cassette, sub-family A (ABC1), member 3 [Source:HGNC Symbol;Acc:3166]	12	3e-04	5 / 48	BP cilium morphogenesis
13	9603	2.1	-1.75	0.49	NFE2L3	nuclear factor, erythroid 2-like 3 [Source:HGNC Symbol;Acc:2045]	13	3e-04	10 / 215	miRN hsa-miR-199a-3p
14	1365	2.05	-0.55	0.63	CLDN3	claudin 3 [Source:HGNC Symbol;Acc:2045]	14	3e-04	9 / 179	miRN hsa-miR-34b
15	494470	2.04	-1.37	0.6	RNF165	ring finger protein 165 [Source:HGNC Symbol;Acc:31696]	15	3e-04	15 / 449	miRN hsa-miR-130b
16	1959	2.02	-1.28	0.36	EGR2	early growth response 2 [Source:HGNC Symbol;Acc:3239]	16	3e-04	6 / 78	BP positive regulation of angiogenesis
17	909	1.99	-1.12	0.34	CD1A	CD1a molecule [Source:HGNC Symbol;Acc:1634]	17	3e-04	78 / 4640	CC nucleus
18	3670	1.98	-0.84	0.35	ISL1	ISL LIM homeobox 1 [Source:HGNC Symbol;Acc:6132]	18	4e-04	8 / 146	miRN hsa-miR-494
19	9915	1.9	-0.54	0.7	ARNT2	aryl-hydrocarbon receptor nuclear translocator 2 [Source:HGNC Symbol;Acc:3167]	19	4e-04	11 / 267	miRN CACT-128A---128B
20	63917	1.86	-1.59	0.42	GALNT1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyl-	20	4e-04	15 / 456	miRN hsa-miR-130a
							21	4e-04	5 / 53	miRN GCAA-502
							22	4e-04	4 / 30	BP response to steroid hormone
							23	4e-04	9 / 187	miRN hsa-miR-520d-5p
							24	4e-04	12 / 316	miRN hsa-miR-302a
							25	4e-04	3 / 13	Lymph BENTINK_mBL_UP
							26	5e-04	14 / 415	miRN TTG-19A---19B
							27	5e-04	9 / 193	miRN hsa-miR-330-3p
							28	7e-04	7 / 122	miRN hsa-miR-380
							29	7e-04	3 / 15	GSE/ DAVICIONI_PAX_FOXO1_SIGNATURE_IN_ARMS_DN
							30	7e-04	3 / 15	GSE/ MASSARWEH_RESPONSE_TO_ESTRADIOL
							31	7e-04	4 / 34	BP thymus development
							32	8e-04	10 / 246	miRN TGCT-330
							33	8e-04	3 / 16	GSE/ BILBAN_B_CLL_LPL_DN
							34	9e-04	16 / 545	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_UP
							35	9e-04	21 / 823	MF sequence-specific DNA binding transcription factor activity
							36	9e-04	5 / 64	miRN hsa-miR-324-5p
							37	1e-03	11 / 301	miRN hsa-miR-18b
							38	1e-03	33 / 1574	BP transcription, DNA-templated
							39	1e-03	8 / 171	miRN CTAT-153
							40	1e-03		

Geneset Overrepresentation





Sample–Overexpression

Spot Summary: C

metagenes = 17

genes = 185

<r> metagenes = 0.96

<r> genes = 0.32

beta: r2= 4.79 / log p= -Inf

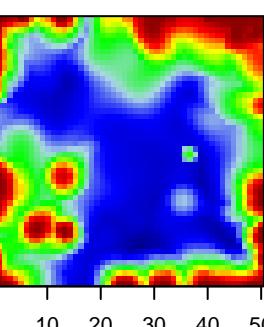
samples with spot = 14 (5.1 %)

Atypical : 8 (10.8 %)

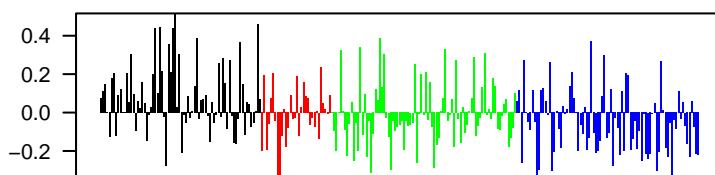
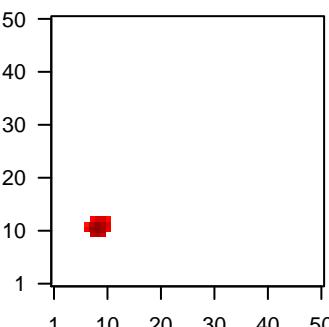
Mesenchymal : 5 (5.9 %)

Basal : 1 (1.2 %)

Overview Map



Spot

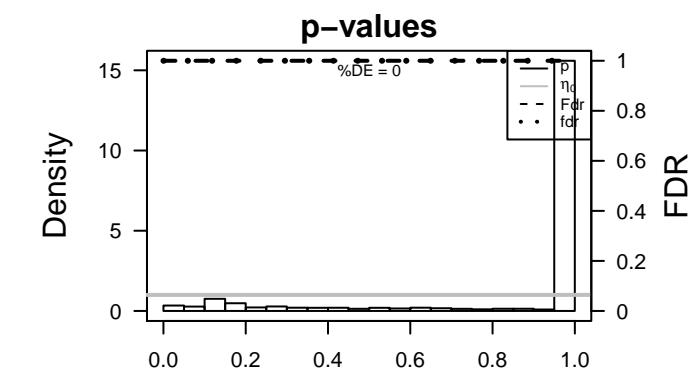


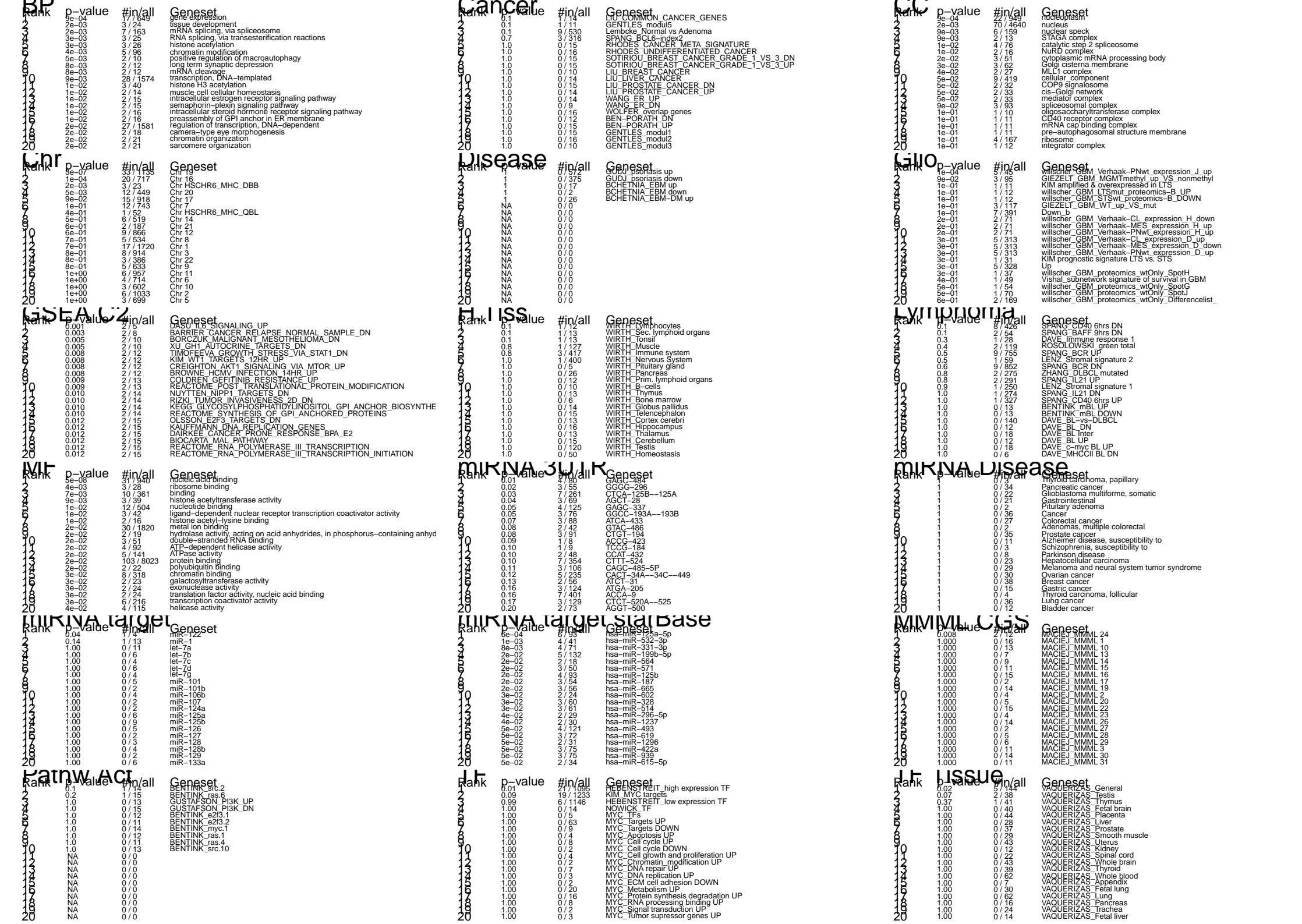
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	3303	1.9	-2.49	0.33	HSPA1A heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:525]	HSPA1A	1	5e-08	31 / 940	MF nucleic acid binding
2	23338	1.78	-1.12	0.43	JADE2 jade family PHD finger 2 [Source:HGNC Symbol;Acc:22984]	JADE2	2	3e-07	33 / 1135	Chr Chr 19
3	2026	1.72	-1.27	0.54	ENO2 enolase 2 (gamma, neuronal) [Source:HGNC Symbol;Acc:33]	ENO2	3	1e-04	5 / 45	Glio willscher_GBM_Verhaak-PNwt_expression_J_up
4	51477	1.71	-0.85	0.61	ISYNA1 inositol-3-phosphate synthase 1 [Source:HGNC Symbol;Acc:2512C]	ISYNA1	4	1e-04	20 / 717	Chr Chr 16
5	93109	1.63	-0.99	0.41	TMEM44 transmembrane protein 44 [Source:HGNC Symbol;Acc:2512C]	TMEM44	5	6e-04	6 / 93	miRN hsa-miR-125a-5p
6	80728	1.6	-1.29	0.64	ARHGAP80 GTPase activating protein 39 [Source:HGNC Symbol;Acc:2512C]	ARHGAP80	6	9e-04	22 / 949	CC nucleoplasm
7	729021	1.52	-0.97	0.41			7	9e-04	17 / 649	BP gene expression
8	401357	1.51	-0.94	0.45			8	1e-03	4 / 41	miRN hsa-miR-532-3p
9	55653	1.45	-0.87	0.53	BCAS4 breast carcinoma amplified sequence 4 [Source:HGNC Symbol]	BCAS4	9	1e-03	2 / 5	GSE/ DASUIL6_SIGNALING_UP
10	1951	1.4	-1.06	0.45	CELSR3 cadherin, EGF LAG seven-pass G-type receptor 3 [Source:HGNC Symbol]	CELSR3	10	2e-03	70 / 4640	CC nucleus
11	100170841	1.36	-0.75	0.58	C17orf96 chromosome 17 open reading frame 96 [Source:HGNC Symbol]	C17orf96	11	2e-03	3 / 23	Chr Chr HSCHR6_MHC_DBB
12	5871	1.35	-1.14	0.46	MAP4K2 mitogen-activated protein kinase kinase kinase kinase 2 [Source:HGNC Symbol]	MAP4K2	12	2e-03	3 / 24	BP tissue development
13	9862	1.33	-0.73	0.48	MED24 mediator complex subunit 24 [Source:HGNC Symbol;Acc:22984]	MED24	13	2e-03	7 / 163	BP mRNA splicing, via spliceosome
14	27161	1.33	-1.09	0.68	AGO2 argonaute RISC catalytic component 2 [Source:HGNC Symbol]	AGO2	14	3e-03	3 / 25	BP RNA splicing, via transesterification reactions
15	128710	1.31	-1.16	0.42	SLX4IP SLX4 interacting protein [Source:HGNC Symbol;Acc:16225]	SLX4IP	15	3e-03	3 / 26	BP histone acetylation
16	22913	1.26	-0.67	0.57	RALY RALY heterogeneous nuclear ribonucleoprotein [Source:HGNC Symbol]	RALY	16	3e-03	2 / 8	GSE/ BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_DN
17	64710	1.25	-0.99	0.67	NUCKS1 nuclear casein kinase and cyclin-dependent kinase substrate	NUCKS1	17	4e-03	5 / 96	MF ribosome binding
18	6526	1.24	-0.84	0.57	SLC5A3 sodium/myo-inositol cotransporter [Source:RefSeq peptide;Acc:22984]	SLC5A3	18	4e-03	5 / 96	BP chromatin modification
19	10948	1.24	-0.47	0.61	STARD3 Star-related lipid transfer (START) domain containing 3 [Source:HGNC Symbol;Acc:22984]	STARD3	19	5e-03	12 / 449	Chr Chr 20
20	149473	1.22	-0.99	0.47	CCDC24 coiled-coil domain containing 24 [Source:HGNC Symbol;Acc:22984]	CCDC24	20	5e-03	2 / 10	BP positive regulation of macroautophagy

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-08	31 / 940	MF nucleic acid binding
2	3e-07	33 / 1135	Chr Chr 19
3	1e-04	5 / 45	Glio willscher_GBM_Verhaak-PNwt_expression_J_up
4	1e-04	20 / 717	Chr Chr 16
5	6e-04	6 / 93	miRN hsa-miR-125a-5p
6	9e-04	22 / 949	CC nucleoplasm
7	9e-04	17 / 649	BP gene expression
8	1e-03	4 / 41	miRN hsa-miR-532-3p
9	1e-03	2 / 5	GSE/ DASUIL6_SIGNALING_UP
10	2e-03	70 / 4640	CC nucleus
11	2e-03	3 / 23	Chr Chr HSCHR6_MHC_DBB
12	2e-03	3 / 24	BP tissue development
13	2e-03	7 / 163	BP mRNA splicing, via spliceosome
14	3e-03	3 / 25	BP RNA splicing, via transesterification reactions
15	3e-03	3 / 26	BP histone acetylation
16	3e-03	2 / 8	GSE/ BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_DN
17	4e-03	5 / 96	MF ribosome binding
18	4e-03	5 / 96	BP chromatin modification
19	5e-03	12 / 449	Chr Chr 20
20	5e-03	2 / 10	BP positive regulation of macroautophagy





Sample–Overexpression

Spot Summary: D

metagenes = 8
genes = 139

$\langle r \rangle$ metagenes = 0.99

$\langle r \rangle$ genes = 0.26

beta: $r^2 = 2.03$ / log p= -Inf

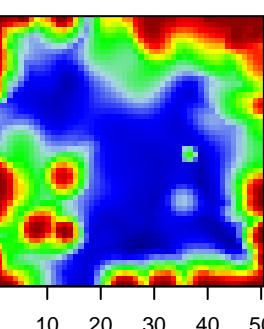
samples with spot = 11 (4 %)

Atypical : 5 (6.8 %)

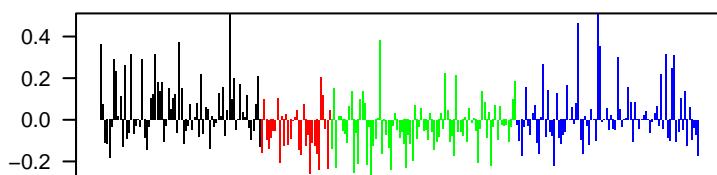
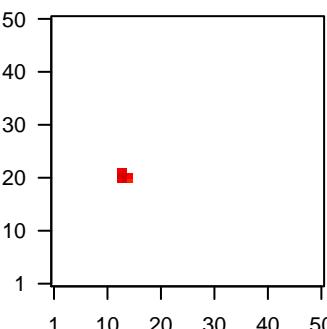
Mesenchymal : 1 (1.2 %)

Basal : 5 (6 %)

Overview Map



Spot



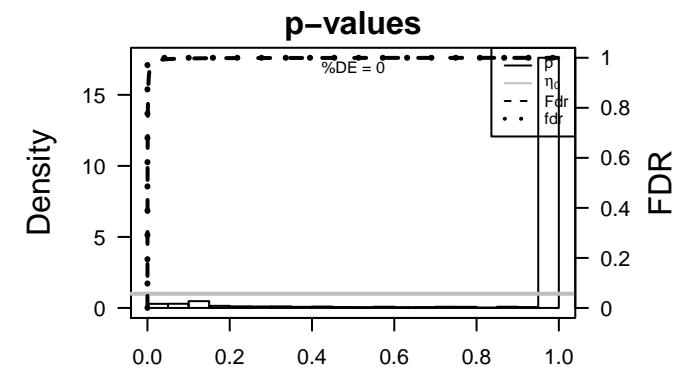
Spot Genelist

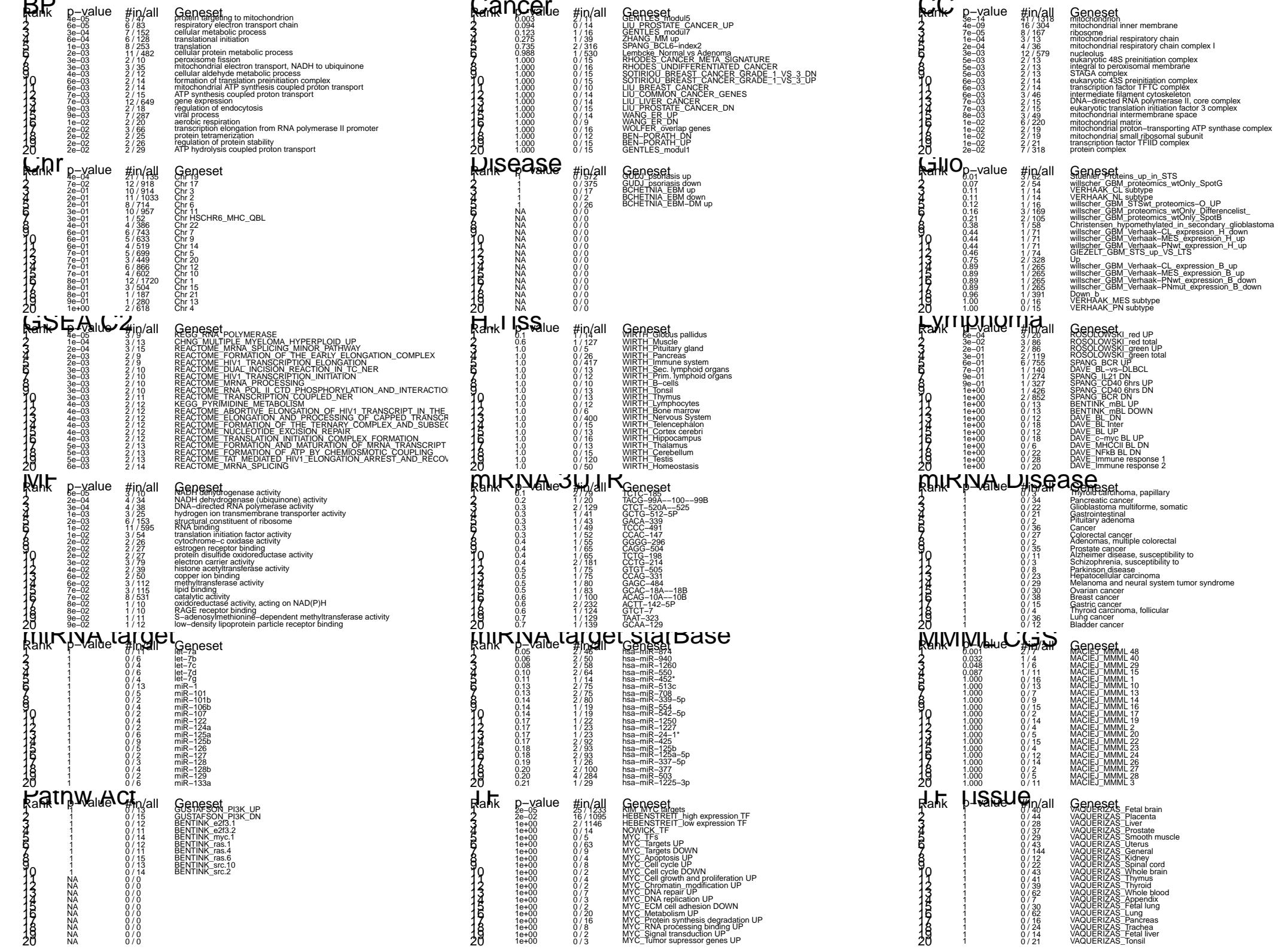
Rank	ID	max e	min e	r	Description	Symbol
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Rank	ID	max e	min e	r	Description	Symbol
1	10430	1.22	-0.82	0.35	TMEM147 transmembrane protein 147 [Source:HGNC Symbol;Acc:3041]	
2	644928	1.21	-0.95	0.36		
3	400156	1.2	-0.87	0.28		
4	5438	1.19	-0.78	0.54	POLR2I polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa [Source:HGNC Symbol;Acc:3042]	
5	7923	1.18	-0.96	0.45	HSD17B8 hydroxysteroid (17-beta) dehydrogenase 8 [Source:HGNC Symbol;Acc:3043]	
6	4713	1.15	-0.75	0.71	NDUFB7 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18 kDa [Source:HGNC Symbol;Acc:3044]	
7	140823	1.15	-0.93	0.52	ROMO1 reactive oxygen species modulator 1 [Source:HGNC Symbol;Acc:3045]	
8	51647	1.12	-0.73	0.49	FAM96B family with sequence similarity 96, member B [Source:HGNC Symbol;Acc:3046]	
9	84681	1.11	-0.82	0.43	HINT2 histidine triad nucleotide binding protein 2 [Source:HGNC Symbol;Acc:3047]	
10	10591	1.1	-0.92	0.55	DNPH1 2'-deoxyribonucleoside 5'-phosphate N-hydrolase 1 [Source:HGNC Symbol;Acc:3048]	
11	10217	1.09	-1.08	0.35	CTDSPL CTD (carboxy-terminal domain, RNA polymerase II, polypeptide chain) domain containing 1 [Source:HGNC Symbol;Acc:3049]	
12	60386	1.07	-0.67	0.57	SLC25A15 solute carrier family 25 (mitochondrial thiamine pyrophosphatase) member 15 [Source:HGNC Symbol;Acc:3050]	
13	27335	1.06	-1.02	0.52	EIF3K eukaryotic translation initiation factor 3, subunit K [Source:HGNC Symbol;Acc:3051]	
14	100131187	1.05	-0.87	0.45	TSTD1 thiosulfate sulfurtransferase (rhodanese)-like domain containing 1 [Source:HGNC Symbol;Acc:3052]	
15	254863	1.04	-0.95	0.53	TMEM256 transmembrane protein 256 [Source:HGNC Symbol;Acc:3053]	
16	51024	1.04	-0.79	0.44	FIS1 fission 1 (mitochondrial outer membrane) homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:3054]	
17	3615	1.04	-1.16	0.41	IMPDH2 IMP (inosine 5'-monophosphate) dehydrogenase 2 [Source:HGNC Symbol;Acc:3055]	
18	26001	1.04	-0.76	0.35	RNF167 ring finger protein 167 [Source:HGNC Symbol;Acc:24544]	
19	8673	1.03	-1.25	0.53	VAMP8 vesicle-associated membrane protein 8 [Source:HGNC Symbol;Acc:3056]	
20	4201	0.99	-0.63	0.6	MEA1 male-enhanced antigen 1 [Source:HGNC Symbol;Acc:6986]	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-14	41 / 1318	CC mitochondrion
2	4e-09	16 / 304	CC mitochondrial inner membrane
3	2e-05	25 / 1233	TF KIM_MYC targets
4	4e-05	5 / 47	BP protein targeting to mitochondrion
5	4e-05	3 / 9	GSEA KEGG_RNA_POLYMERASE
6	6e-05	6 / 83	BP respiratory electron transport chain
7	6e-05	3 / 10	MF NADH dehydrogenase activity
8	7e-05	8 / 167	CC ribosome
9	1e-04	3 / 13	CC mitochondrial respiratory chain
10	1e-04	3 / 13	GSEA CHNG_MULTIPLE_MYELOMA_HYPERPOLOID_UP
11	2e-04	4 / 34	MF NADH dehydrogenase (ubiquinone) activity
12	2e-04	4 / 36	CC mitochondrial respiratory chain complex I
13	2e-04	3 / 15	GSEA REACTOME_MRNA_SPLICING_MINOR_PATHWAY
14	3e-04	7 / 152	BP cellular metabolic process
15	3e-04	4 / 38	MF DNA-directed RNA polymerase activity
16	4e-04	21 / 1135	Chr Chr 19
17	6e-04	3 / 20	Lymph ROSOLOWSKI_red_UP
18	6e-04	6 / 128	BP translational initiation
19	1e-03	3 / 25	MF hydrogen ion transmembrane transporter activity
20	1e-03	8 / 253	BP translation
21	1e-03	2 / 7	MMM MACIEJ_MMML_48
22	2e-03	6 / 153	MF structural constituent of ribosome
23	2e-03	11 / 482	BP cellular protein metabolic process
24	2e-03	2 / 9	GSEA REACTOME_FORMATION_OF_THE_EARLY_ELONGATION_COMPLEX
25	2e-03	2 / 9	GSEA REACTOME_HIV1_TRANSSCRIPTION_ELONGATION
26	3e-03	2 / 10	BP peroxisome fission
27	3e-03	2 / 10	GSEA REACTOME_DUAL_INCISIONREACTION_IN_TC_NER
28	3e-03	2 / 10	GSEA REACTOME_HIV1_TRANSDUCTION_INITIATION
29	3e-03	2 / 10	GSEA REACTOME_MRNA_PROCESSING
30	3e-03	2 / 10	GSEA REACTOME_RNA_POL_II_CTD_PHOSPHORYLATION_AND_INTERACT
31	3e-03	12 / 579	CC nucleolus
32	3e-03	3 / 35	BP mitochondrial electron transport, NADH to ubiquinone
33	3e-03	2 / 11	Cancer GENTLES_modul5
34	3e-03	2 / 11	GSEA REACTOME_TRANSCRIPTION_COUPLED_NER
35	4e-03	2 / 12	BP cellular aldehyde metabolic process
36	4e-03	2 / 12	GSEA KEGG_PYRIMIDINE_METABOLISM
37	4e-03	2 / 12	GSEA REACTOME_ABORTIVE_ELONGATION_OF_HIV1_TRANSCRIPT_IN_THE_CELL
38	4e-03	2 / 12	GSEA REACTOME_ELONGATION_AND_PROCESSING_OF_CAPPED_TRANSL
39	4e-03	2 / 12	GSEA REACTOME_FORMATION_OF_THE_TERNARY_COMPLEX_AND_SUBS
40	4e-03	2 / 12	GSEA REACTOME_NUCLEOTIDE_EXCISION_REPAIR





Sample–Overexpression

Spot Summary: E

metagenes = 2
genes = 66

<r> metagenes = 1

<r> genes = 0.36

beta: r2= 4.93 / log p= -Inf

samples with spot = 14 (5.1 %)

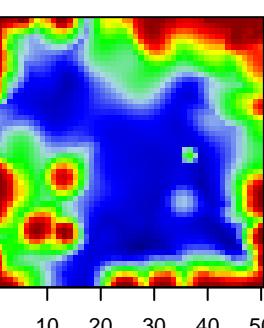
Atypical : 10 (13.5 %)

Classical : 1 (3.1 %)

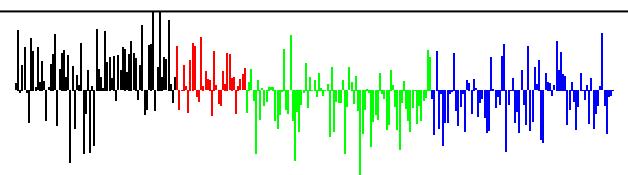
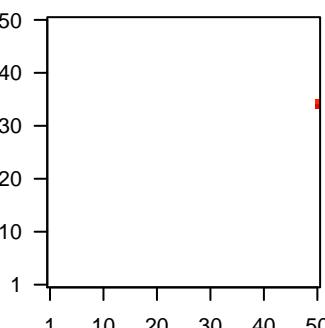
Mesenchymal : 1 (1.2 %)

Basal : 2 (2.4 %)

Overview Map



Spot

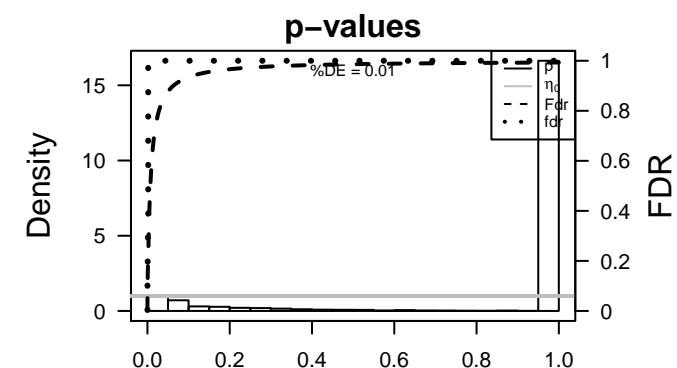


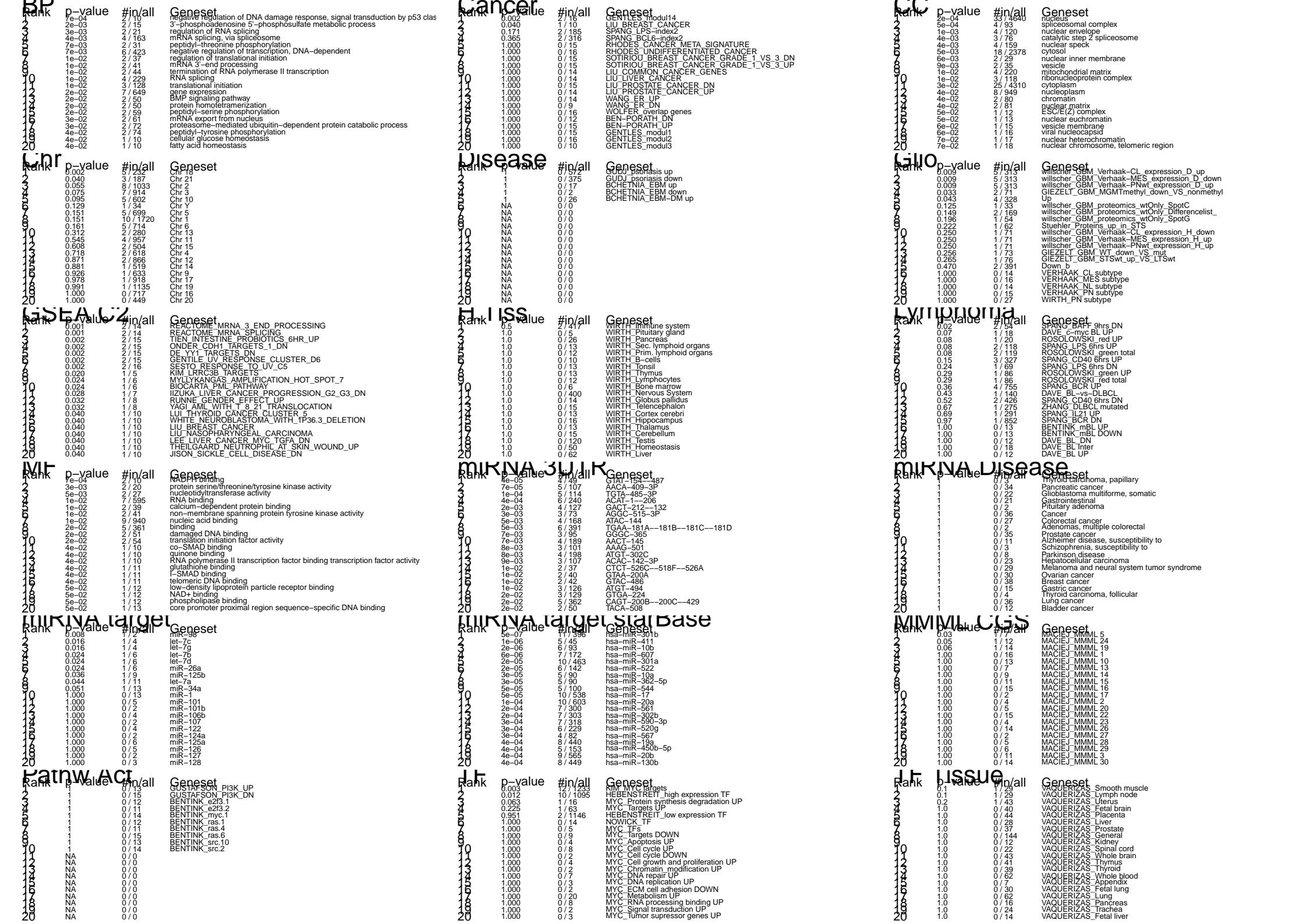
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol
1	1429	1.26	-1.33	0.44	CRYZ	crystallin, zeta (quinone reductase) [Source:HGNC Symbol;Acc:8091]
2	64747	1.18	-0.88	0.33	MFSD1	major facilitator superfamily domain containing 1 [Source:HGNC Symbol;Acc:8091]
3	57763	1.1	-0.72	0.75	ANKRA2	ankyrin repeat, family A (RFXANK-like), 2 [Source:HGNC Symbol;Acc:8091]
4	26996	1.1	-0.52	0.5	GPR160	G protein-coupled receptor 160 [Source:HGNC Symbol;Acc:8091]
5	4942	1.09	-1.01	0.51	OAT	ornithine aminotransferase [Source:HGNC Symbol;Acc:8091]
6	25874	1.08	-1	0.48	MPC2	mitochondrial pyruvate carrier 2 [Source:HGNC Symbol;Acc:8091]
7	5612	1.08	-1.18	0.4	PRKR1R	protein-kinase, interferon-inducible double stranded RNA dependent, 1
8	11064	1.08	-0.65	0.62	CNTRL	centriolin [Source:HGNC Symbol;Acc:1858]
9	1195	1.06	-0.86	0.55	CLK1	CDC-like kinase 1 [Source:HGNC Symbol;Acc:2068]
10	9061	1.05	-0.88	0.59	PAPSS1	3'-phosphoadenosine 5'-phosphosulfate synthase 1 [Source:HGNC Symbol;Acc:8091]
11	8287	1.05	-0.57	0.37	USP9Y	ubiquitin specific peptidase 9, Y-linked [Source:HGNC Symbol;Acc:8091]
12	6146	1.05	-1.25	0.65	RPL22	ribosomal protein L22 [Source:HGNC Symbol;Acc:10315]
13	1975	1.02	-0.96	0.6	EIF4B	eukaryotic translation initiation factor 4B [Source:HGNC Symbol;Acc:8091]
14	22862	1.01	-0.87	0.5	FNDC3A	fibronectin type III domain containing 3A [Source:HGNC Symbol;Acc:8091]
15	10289	1	-0.73	0.45	EIF1B	eukaryotic translation initiation factor 1B [Source:HGNC Symbol;Acc:8091]
16	10015	1	-0.95	0.6	PDCD6IP	programmed cell death 6 interacting protein [Source:HGNC Symbol;Acc:8091]
17	3150	0.99	-0.94	0.64	HMGN1	high mobility group nucleosome binding domain 1 [Source:HGNC Symbol;Acc:8091]
18	51124	0.99	-0.96	0.52	IER3IP1	immediate early response 3-interacting protein 1 [Source:HGNC Symbol;Acc:8091]
19	34	0.98	-1	0.69	ACADM	acyl-CoA dehydrogenase, C-4 to C-12 straight chain [Source:HGNC Symbol;Acc:8091]
20	54495	0.97	-1	0.62	TMX3	thioredoxin-related transmembrane protein 3 [Source:HGNC Symbol;Acc:8091]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-07	11 / 396	miRN hsa-miR-301b
2	1e-06	5 / 45	miRN hsa-miR-411
3	2e-06	6 / 93	miRN hsa-miR-10b
4	6e-06	7 / 172	miRN hsa-miR-607
5	2e-05	10 / 463	miRN hsa-miR-301a
6	2e-05	6 / 142	miRN hsa-miR-522
7	3e-05	5 / 90	miRN hsa-miR-10a
8	3e-05	5 / 90	miRN hsa-miR-362-5p
9	4e-05	4 / 49	miRN GTAT-154--487
10	5e-05	5 / 100	miRN hsa-miR-544
11	5e-05	10 / 538	miRN hsa-miR-17
12	7e-05	5 / 107	miRN AACAT-409-3P
13	1e-04	5 / 114	miRN TGTA-485-3P
14	1e-04	10 / 603	miRN hsa-miR-20a
15	2e-04	33 / 4640	CC nucleus
16	2e-04	7 / 300	miRN hsa-miR-561
17	2e-04	7 / 303	miRN hsa-miR-302b
18	3e-04	7 / 318	miRN hsa-miR-590-3p
19	3e-04	6 / 229	miRN hsa-miR-520g
20	3e-04	4 / 82	miRN hsa-miR-567
21	4e-04	8 / 440	miRN hsa-miR-19a
22	4e-04	5 / 153	miRN hsa-miR-450b-5p
23	4e-04	6 / 240	miRN ACAT-1--206
24	4e-04	9 / 565	miRN hsa-miR-20b
25	4e-04	8 / 449	miRN hsa-miR-130b
26	5e-04	8 / 456	miRN hsa-miR-130a
27	5e-04	3 / 38	miRN hsa-miR-1277
28	5e-04	4 / 93	CC spliceosomal complex
29	6e-04	5 / 169	miRN hsa-miR-374b
30	6e-04	5 / 172	miRN hsa-miR-520h
31	7e-04	8 / 479	miRN hsa-miR-15b
32	7e-04	6 / 264	miRN hsa-miR-449a
33	7e-04	2 / 10	MF NADPH binding
34	7e-04	2 / 10	BP negative regulation of DNA damage response, signal transduction by p53 c
35	7e-04	8 / 488	miRN hsa-miR-16
36	8e-04	5 / 180	miRN hsa-miR-374a
37	9e-04	7 / 382	miRN hsa-miR-454
38	9e-04	3 / 47	miRN hsa-miR-302b*
39	9e-04	6 / 280	miRN hsa-miR-320a
40	9e-04	5 / 186	miRN hsa-miR-382





Sample–Overexpression

Spot Summary: F

metagenes = 9

genes = 130

<r> metagenes = 0.98

<r> genes = 0.43

beta: r2= 10.55 / log p= -Inf

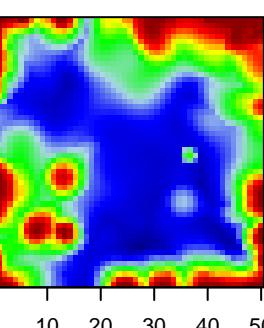
samples with spot = 58 (21.1 %)

Atypical : 16 (21.6 %)

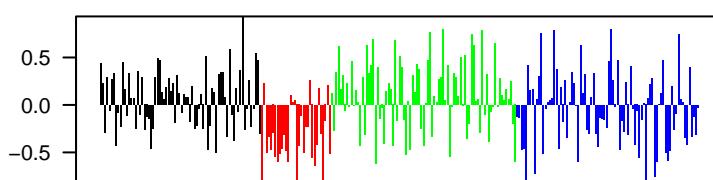
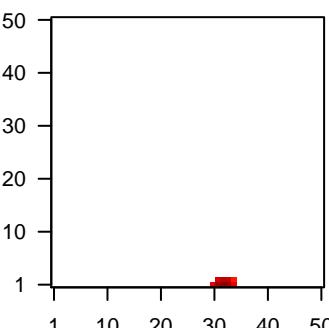
Mesenchymal : 27 (31.8 %)

Basal : 15 (17.9 %)

Overview Map



Spot



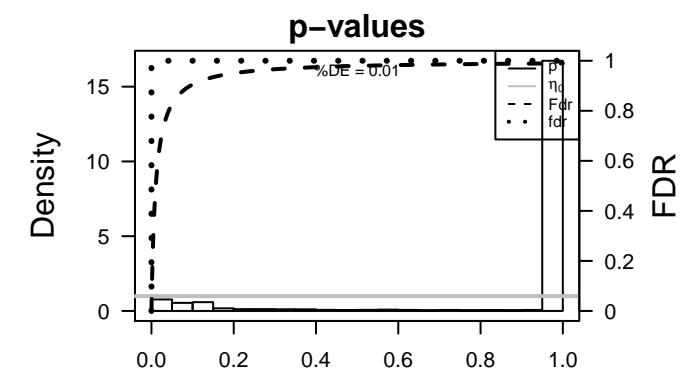
Spot Genelist

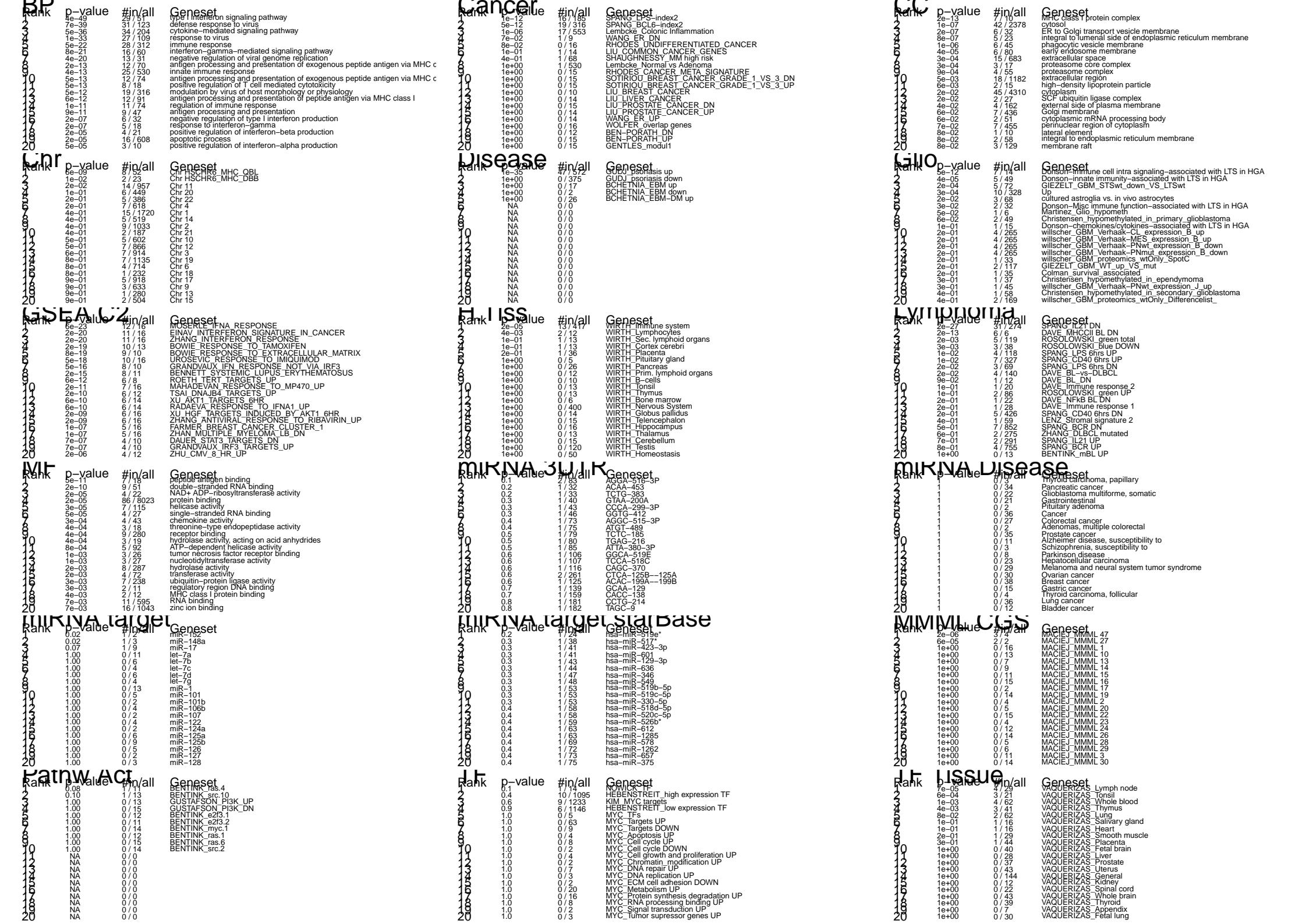
Rank	ID	max e	min e	r	Description	Symbol
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1	3627	3.43	-2.5	0.75	CXCL10 chemokine (C–X–C motif) ligand 10 [Source:HGNC Symbol;Acc:1005]	
2	6373	2.89	-1.08	0.54	CXCL11 chemokine (C–X–C motif) ligand 11 [Source:HGNC Symbol;Acc:1006]	
3	9560	2.65	-1.76	0.49	CCL4L1 chemokine (C–C motif) ligand 4-like 1 [Source:HGNC Symbol;Acc:1007]	
4	9636	2.47	-2.69	0.73	ISG15 ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:405]	
5	10964	2.46	-2.33	0.78	IFI44L interferon-induced protein 44-like [Source:HGNC Symbol;Acc:1008]	
6	8743	2.43	-2.05	0.38	TNFSF1 tumor necrosis factor (ligand) superfamily, member 10 [Source:HGNC Symbol;Acc:1009]	
7	629	2.42	-2.1	0.6	CFB complement factor B [Source:HGNC Symbol;Acc:1037]	
8	7453	2.35	-1.7	0.73	WARS tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:1010]	
9	115362	2.34	-1.91	0.73	GBP5 guanylate binding protein 5 [Source:HGNC Symbol;Acc:1989]	
10	388372	2.33	-1.11	0.62	CCL4L1 chemokine (C–C motif) ligand 4-like 1 [Source:HGNC Symbol;Acc:1011]	
11	6355	2.3	-1.49	0.54	CCL8 chemokine (C–C motif) ligand 8 [Source:HGNC Symbol;Acc:1012]	
12	9536	2.23	-1.43	0.33	PTGES prostaglandin E synthase [Source:HGNC Symbol;Acc:9599]	
13	4321	2.23	-1.74	0.44	MMP12 matrix metalloproteinase 12 (macrophage elastase) [Source:HGNC Symbol;Acc:1013]	
14	970	2.2	-0.71	0.41	CD70 CD70 molecule [Source:HGNC Symbol;Acc:11937]	
15	3433	2.19	-1.63	0.69	IFIT2 interferon-induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:1014]	
16	1591	2.19	-1.48	0.24	CYP24A1 cytochrome P450, family 24, subfamily A, polypeptide 1 [Source:HGNC Symbol;Acc:1015]	
17	94240	2.04	-2.07	0.81	EPSTI1 epithelial stromal interaction 1 (breast) [Source:HGNC Symbol;Acc:1016]	
18	3135	1.98	-1.39	0.66	HLA-G major histocompatibility complex, class I, G [Source:HGNC Symbol;Acc:1017]	
19	55008	1.98	-2.07	0.61	HERC6 HECT and RLD domain containing E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:1018]	
20	10561	1.95	-1.98	0.74	IFI44 interferon-induced protein 44 [Source:HGNC Symbol;Acc:1610]	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-49	29 / 51	BP type I interferon signaling pathway
2	7e-39	31 / 123	BP defense response to virus
3	5e-36	34 / 204	BP cytokine-mediated signaling pathway
4	1e-35	47 / 572	Disea GUDJ_psoriasis up
5	1e-33	27 / 109	BP response to virus
6	2e-27	31 / 274	Lymph SPANG_IL21 DN
7	6e-23	12 / 16	GSE/ MOSERLE_I_FNA_RESPONSE
8	5e-22	28 / 312	BP immune response
9	8e-21	16 / 60	BP interferon-gamma-mediated signaling pathway
10	2e-20	11 / 16	GSE/ EINAV_INTERFERON_SIGNATURE_IN_CANCER
11	2e-20	11 / 16	GSE/ ZHANG_INTERFERON_RESPONSE
12	4e-20	13 / 31	BP negative regulation of viral genome replication
13	2e-19	10 / 13	GSE/ BOWIE_RESPONSE_TO_TAMOXIFEN
14	8e-19	9 / 10	GSE/ BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
15	5e-18	10 / 16	GSE/ UROSEVIC_RESPONSE_TO_IMIQUIMOD
16	5e-16	8 / 10	GSE/ GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
17	2e-15	8 / 11	GSE/ BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS
18	2e-13	7 / 10	CC MHC class I protein complex
19	2e-13	6 / 6	Lymph DAVE_MHCII_BL_DN
20	2e-13	12 / 70	BP antigen processing and presentation of exogenous peptide antigen via MHC class II
21	4e-13	25 / 530	BP innate immune response
22	5e-13	12 / 74	BP antigen processing and presentation of exogenous peptide antigen via MHC class I
23	5e-13	8 / 18	BP positive regulation of T cell mediated cytotoxicity
24	1e-12	16 / 185	Cancer SPANG_LPS-index2
25	5e-12	7 / 14	Glio Donson-immune cell intra signaling-associated with LTS in HGA
26	5e-12	19 / 316	BP modulation by virus of host morphology or physiology
27	5e-12	19 / 316	Cancer SPANG_BCL6-index2
28	6e-12	6 / 8	GSE/ ROETH_TERT_TARGETS_UP
29	6e-12	12 / 91	BP antigen processing and presentation of peptide antigen via MHC class I
30	1e-11	11 / 74	BP regulation of immune response
31	2e-11	7 / 16	GSE/ MAHADEVAN_RESPONSE_TO_MP470_UP
32	5e-11	7 / 18	MF peptide antigen binding
33	9e-11	9 / 47	BP antigen processing and presentation
34	2e-10	6 / 12	GSE/ TSAL_DNAJB4_TARGETS_UP
35	2e-10	9 / 51	MF double-stranded RNA binding
36	6e-10	6 / 14	GSE/ XU_AKT1_TARGETS_6HR
37	6e-10	6 / 14	GSE/ RADAeva_RESPONSE_TO_IFNA1_UP
38	2e-09	6 / 16	GSE/ XU_HGF_TARGETS_INDUCED_BY_AKT1_6HR
39	2e-09	6 / 16	GSE/ ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_UP
40	6e-09	8 / 52	Chr Chr HSCHR6_MHC_QBL





Sample–Overexpression

Spot Summary: G

metagenes = 11

genes = 229

<r> metagenes = 0.99

<r> genes = 0.62

beta: r2= 44.95 / log p= -Inf

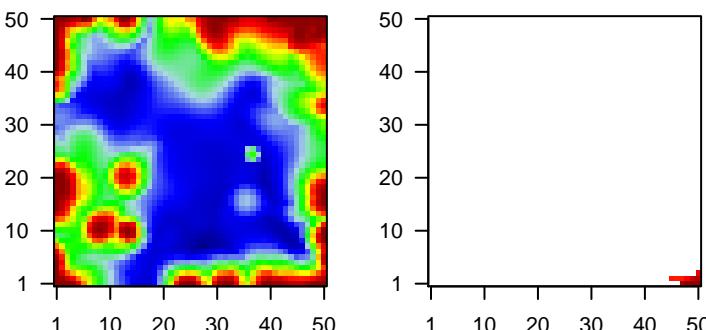
samples with spot = 63 (22.9 %)

Atypical : 48 (64.9 %)

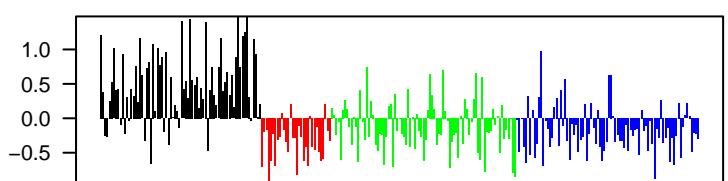
Mesenchymal : 9 (10.6 %)

Basal : 6 (7.1 %)

Overview Map



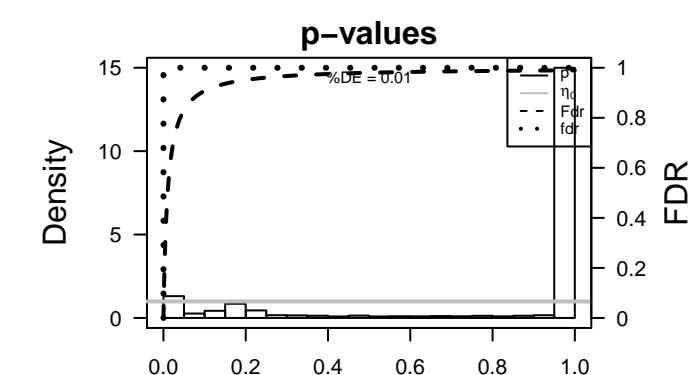
Spot

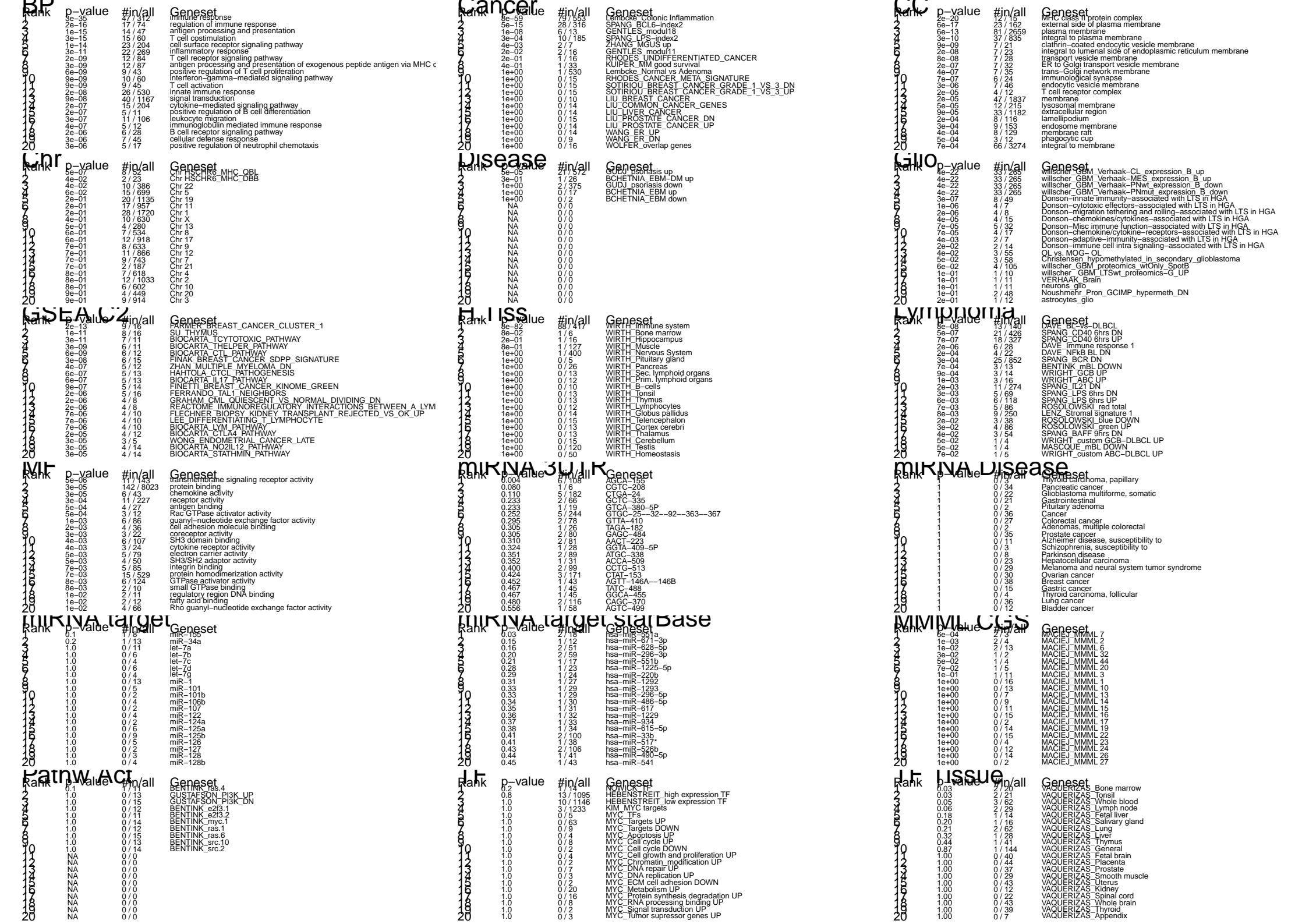


Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	260436	4.41	-1.73	0.46	FDCSP	follicular dendritic cell secreted protein [Source:HGNC Symbol]	1	8e-82	88 / 417	H.Tis: WIRTH_Immune system
2	6363	3.84	-1.64	0.79	CCL19	chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc:18795]	2	8e-59	79 / 553	Canc: Lembecke_Colonie_Inflammation
3	3512	3.8	-2.52	0.56	IGJ	immunoglobulin J polypeptide, linker protein for immunoglobu	3	3e-35	47 / 312	BP immune response
4	3620	3.29	-1.36	0.5	IDO1	indoleamine 2,3-dioxygenase 1 [Source:HGNC Symbol;Acc:18795]	4	4e-22	33 / 265	Glio: willscher_GBM_Verhaak-CL_expression_B_up
5	10537	3.29	-1.89	0.78	UBD	ubiquitin D [Source:HGNC Symbol;Acc:18795]	5	4e-22	33 / 265	Glio: willscher_GBM_Verhaak-MES_expression_B_up
6	930	3.28	-1.12	0.82	CD19	CD19 molecule [Source:HGNC Symbol;Acc:1633]	6	4e-22	33 / 265	Glio: willscher_GBM_Verhaak-PNwt_expression_B_down
7	5730	3.15	-1.43	0.71	PTGDS	prostaglandin D2 synthase 21kDa (brain) [Source:HGNC Syn	7	4e-22	33 / 265	Glio: willscher_GBM_Verhaak-PNmut_expression_B_down
8	6366	3.15	-1.26	0.57	CCL21	chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc:18795]	8	2e-20	12 / 15	CC MHC class II protein complex
9	57172	3.1	-2.31	0.69	CAMK1G	calcium/calmodulin-dependent protein kinase IG [Source:HG	9	6e-17	23 / 162	CC external side of plasma membrane
10	4069	3.05	-1.52	0.62	LYZ	lysozyme [Source:HGNC Symbol;Acc:6740]	10	2e-16	17 / 74	BP regulation of immune response
11	9806	3.05	-1.59	0.84	SPOCK2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan	11	1e-15	14 / 47	BP antigen processing and presentation
12	4283	2.98	-1.9	0.55	CXCL9	chemokine (C-X-C motif) ligand 9 [Source:HGNC Symbol;Acc:18795]	12	3e-15	15 / 60	BP T cell costimulation
13	962	2.92	-1.66	0.95	CD48	CD48 molecule [Source:HGNC Symbol;Acc:1683]	13	5e-15	28 / 316	Canc: SPANG_BCL6-index2
14	25849	2.86	-1.41	0.61	PARM1	prostate androgen-regulated mucin-like protein 1 [Source:HG	14	1e-14	23 / 204	BP cell surface receptor signaling pathway
15	3120	2.85	-1.57	0.37	HLA-DQB1	Björk histocompatibility complex, class II, DQ beta 2 [Source:	15	2e-13	9 / 16	GSE: FARMER_BREAST_CANCER_CLUSTER_1
16	51755	2.83	-2.17	0.66	CDK12	cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242]	16	6e-13	81 / 2659	CC plasma membrane
17	54855	2.8	-2.28	0.76	FAM46C	family with sequence similarity 46, member C [Source:HGNC	17	1e-11	8 / 16	GSE: SU_THYMUS
18	4050	2.8	-1.39	0.9	LTB	lymphotoxin beta (TNF superfamily, member 3) [Source:HG	18	3e-11	22 / 269	BP inflammatory response
19	1236	2.76	-1.33	0.86	CCR7	chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Acc:18795]	19	3e-11	7 / 11	GSE: BIOCARTA_TCYTOTOXIC_PATHWAY
20	713	2.72	-1.99	0.76	C1QB	complement component 1, q subcomponent, B chain [Source:HG	20	3e-10	37 / 835	CC integral to plasma membrane
							21	2e-09	12 / 84	BP T cell receptor signaling pathway
							22	3e-09	12 / 87	BP antigen processing and presentation of exogenous peptide antigen via MHC
							23	3e-09	6 / 11	GSE: BIOCARTA_THELPER_PATHWAY
							24	6e-09	6 / 12	GSE: BIOCARTA_CTL_PATHWAY
							25	6e-09	9 / 43	BP positive regulation of T cell proliferation
							26	9e-09	7 / 21	CC clathrin-coated endocytic vesicle membrane
							27	9e-09	10 / 60	BP interferon-gamma-mediated signaling pathway
							28	9e-09	9 / 45	BP T cell activation
							29	1e-08	6 / 13	Canc: GENTLES_modul18
							30	2e-08	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
							31	2e-08	26 / 530	BP innate immune response
							32	3e-08	6 / 15	GSE: FINAK_BREAST_CANCER_SDPP_SIGNATURE
							33	8e-08	13 / 140	Lymph: DAVE_BL-vs-DLBCL
							34	9e-08	7 / 28	CC transport vesicle membrane
							35	9e-08	40 / 1167	BP signal transduction
							36	2e-07	15 / 204	BP cytokine-mediated signaling pathway
							37	2e-07	5 / 11	BP positive regulation of B cell differentiation
							38	2e-07	7 / 32	CC ER to Golgi transport vesicle membrane
							39	3e-07	11 / 106	BP leukocyte migration
							40	3e-07	8 / 49	Glio: Donson-innate immunity-associated with LTS in HGA

Geneset Overrepresentation





Sample–Overexpression

Spot Summary: H

metagenes = 6
genes = 68

<r> metagenes = 0.98

<r> genes = 0.42

beta: r2= 18.38 / log p= -Inf

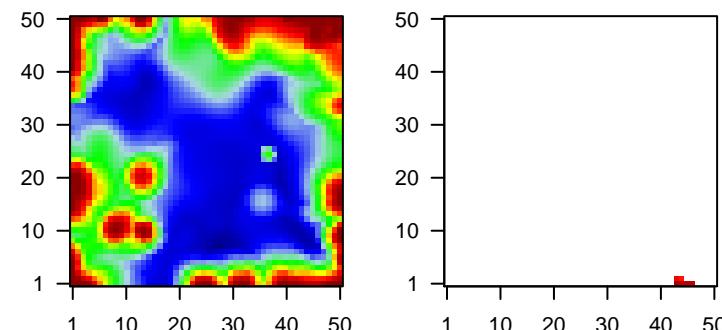
samples with spot = 50 (18.2 %)

Atypical : 41 (55.4 %)

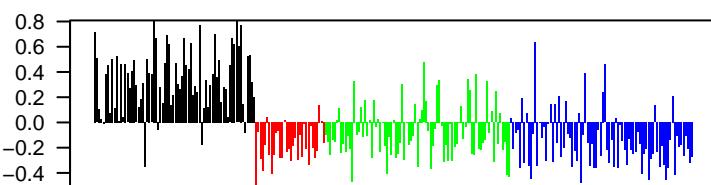
Mesenchymal : 6 (7.1 %)

Basal : 3 (3.6 %)

Overview Map



Spot



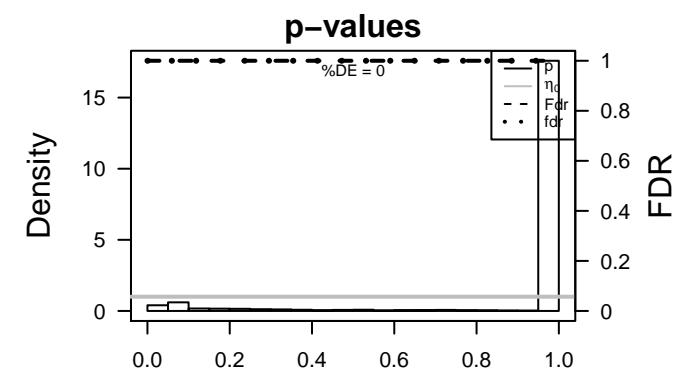
Spot Genelist

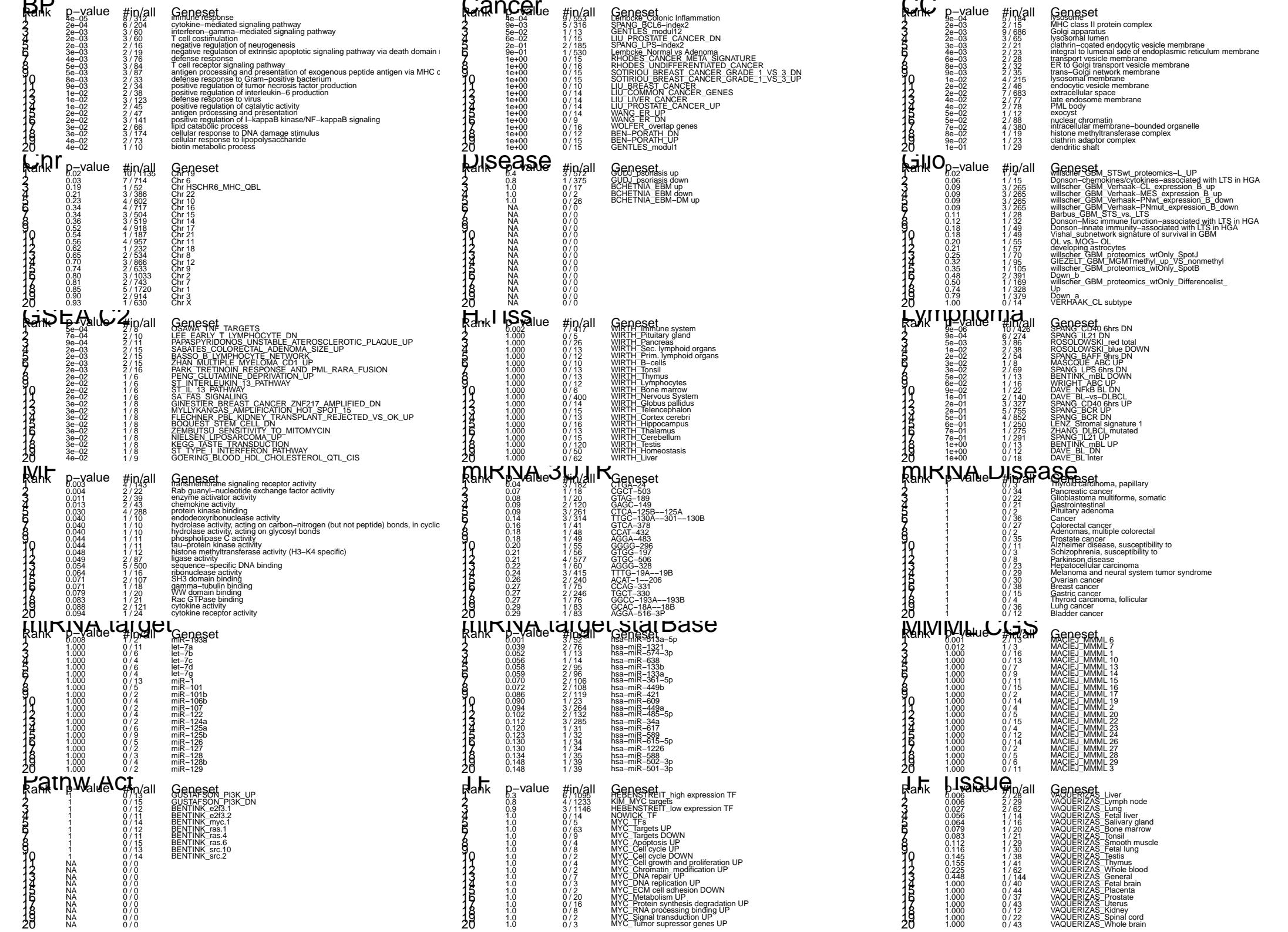
Rank	ID	max e	min e	r	Description	Symbol
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Rank	ID	max e	min e	r	Description	Symbol
1	3127	4.47	-1.24	0.19	HLA-DRA	major histocompatibility complex, class II, DR beta 5 [Source:HGNC Symbol;Acc:185]
2	3123	3.58	-1.81	0.25	HLA-DRB1	major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:186]
3	6364	3.07	-3.08	0.26	CCL20	chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc:2298]
4	169044	2.78	-1.11	0.36	COL22A1	collagen, type XXII, alpha 1 [Source:HGNC Symbol;Acc:2298]
5	22809	2.1	-1.19	0.63	ATF5	activating transcription factor 5 [Source:HGNC Symbol;Acc:7142]
6	6376	2.05	-1.53	0.43	CX3CL1	chemokine (C-X3-C motif) ligand 1 [Source:HGNC Symbol;Acc:186]
7	4248	2	-0.96	0.65	MGAT3	mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminidase [Source:HGNC Symbol;Acc:186]
8	3902	1.91	-0.73	0.72	LAG3	lymphocyte-activation gene 3 [Source:HGNC Symbol;Acc:64]
9	80307	1.89	-0.84	0.64		
10	10062	1.87	-0.99	0.68	NR1H3	nuclear receptor subfamily 1, group H, member 3 [Source:HGNC Symbol;Acc:186]
11	9235	1.87	-1.47	0.61	IL32	interleukin 32 [Source:HGNC Symbol;Acc:16830]
12	11067	1.82	-1.18	0.53	C10orf10	chromosome 10 open reading frame 10 [Source:HGNC Symbol;Acc:186]
13	80162	1.79	-0.97	0.67	ATHL1	ATH1, acid trehalase-like 1 (yeast) [Source:HGNC Symbol;Acc:186]
14	864	1.76	-1.54	0.69	RUNX3	runt-related transcription factor 3 [Source:HGNC Symbol;Acc:186]
15	84446	1.74	-1.13	0.68	BRSK1	BR serine/threonine kinase 1 [Source:HGNC Symbol;Acc:186]
16	441168	1.72	-0.96	0.64	FAM26F	family with sequence similarity 26, member F [Source:HGNC Symbol;Acc:186]
17	2120	1.7	-1.04	0.72	ETV6	ets variant 6 [Source:HGNC Symbol;Acc:3495]
18	7127	1.66	-0.92	0.42	TNFAIP2	tumor necrosis factor, alpha-induced protein 2 [Source:HGNC Symbol;Acc:186]
19	64780	1.54	-0.81	0.72	MICAL1	microtubule associated monooxygenase, calponin and LIM domain containing 1 [Source:HGNC Symbol;Acc:186]
20	65108	1.52	-1.44	0.52	MARCKS	MARCKS-like 1 [Source:HGNC Symbol;Acc:7142]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-06	10 / 426	Lymp SPANG_CD40_6hrs DN
2	4e-05	8 / 312	BP immune response
3	2e-04	6 / 204	BP cytokine-mediated signaling pathway
4	4e-04	9 / 553	Cancer Lembcke_Colon Inflammation
5	5e-04	2 / 8	GSEA OSAWA_TNF_TARGETS
6	7e-04	2 / 10	GSEA LEE_EARLY_T_LYMPHOCYTE_DN
7	9e-04	6 / 274	Lymp SPANG_IL21 DN
8	9e-04	2 / 11	GSEA PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_UP
9	9e-04	5 / 184	CC lysosome
10	1e-03	2 / 13	MM MACIEJ_MMML_6
11	1e-03	3 / 52	miRN hsa-miR-513a-5p
12	2e-03	7 / 417	H.Tis WIRTH_Immune system
13	2e-03	2 / 15	CC MHC class II protein complex
14	2e-03	2 / 15	GSEA SABATES_COLONRECTAL_ADENOMA_SIZE_UP
15	2e-03	2 / 15	GSEA BASSO_B_LYMPHOCYTE_NETWORK
16	2e-03	2 / 15	GSEA ZHAN_MULTIPLE_MYELOMA_CD1_UP
17	2e-03	9 / 686	CC Golgi apparatus
18	2e-03	3 / 60	BP interferon-gamma-mediated signaling pathway
19	2e-03	3 / 60	BP T cell costimulation
20	2e-03	2 / 16	BP negative regulation of neurogenesis
21	2e-03	2 / 16	GSEA PARK_TRETINOIN_RESPONSE_AND_PML_RARA_FUSION
22	2e-03	3 / 65	CC lysosomal lumen
23	3e-03	2 / 19	BP negative regulation of extrinsic apoptotic signaling pathway via death domain
24	3e-03	4 / 143	MF transmembrane signaling receptor activity
25	3e-03	2 / 21	CC clathrin-coated endocytic vesicle membrane
26	4e-03	2 / 22	MF Rab guanyl-nucleotide exchange factor activity
27	4e-03	3 / 76	BP defense response
28	4e-03	2 / 23	CC integral to luminal side of endoplasmic reticulum membrane
29	5e-03	3 / 84	BP T cell receptor signaling pathway
30	5e-03	3 / 86	Lymp ROSOLOWSKI_red total
31	5e-03	3 / 87	BP antigen processing and presentation of exogenous peptide antigen via MHC
32	6e-03	2 / 28	CC transport vesicle membrane
33	6e-03	2 / 28	TF Tis VAQUERIZAS_Liver
34	6e-03	2 / 29	TF Tis VAQUERIZAS_Lymph node
35	8e-03	2 / 32	CC ER to Golgi transport vesicle membrane
36	8e-03	2 / 33	BP defense response to Gram-positive bacterium
37	8e-03	1 / 2	miRN miR-193a
38	9e-03	2 / 34	BP positive regulation of tumor necrosis factor production
39	9e-03	2 / 35	CC trans-Golgi network membrane
40	9e-03	5 / 316	Cano SPANG_BCL6-index2





Sample–Overexpression

Spot Summary: I

metagenes = 3
genes = 89

<r> metagenes = 0.98

<r> genes = 0.44

beta: r2= 19.35 / log p= -Inf

samples with spot = 46 (16.7 %)

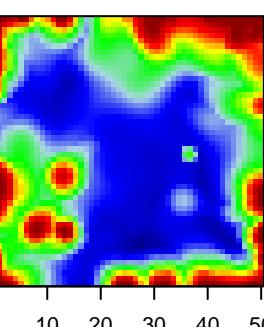
Atypical : 21 (28.4 %)

Classical : 2 (6.2 %)

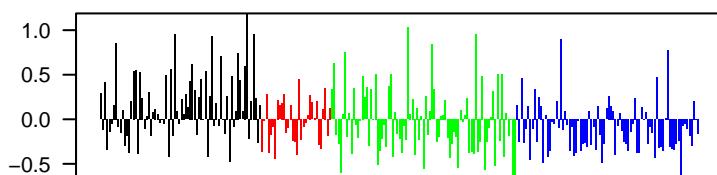
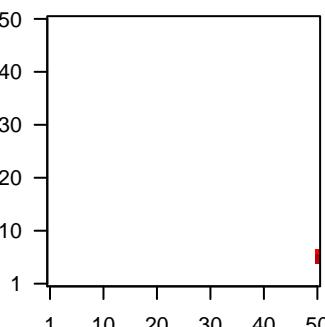
Mesenchymal : 18 (21.2 %)

Basal : 5 (6 %)

Overview Map



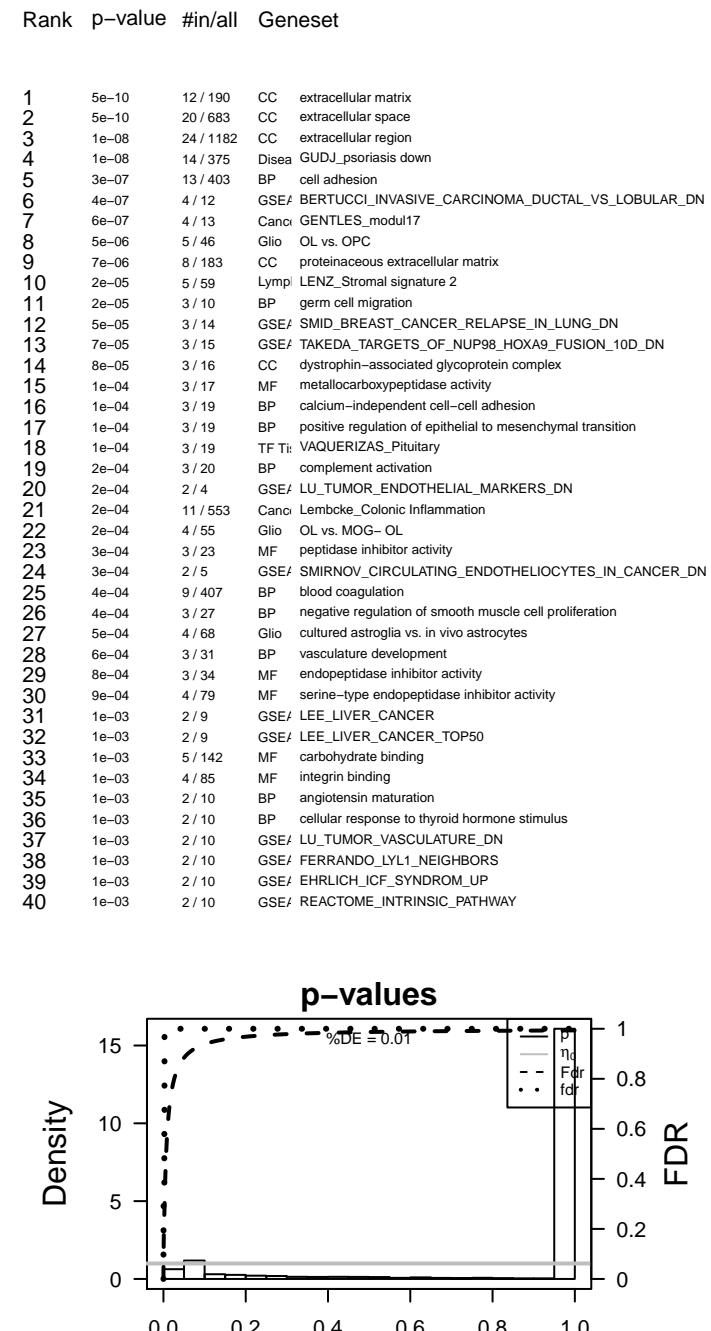
Spot

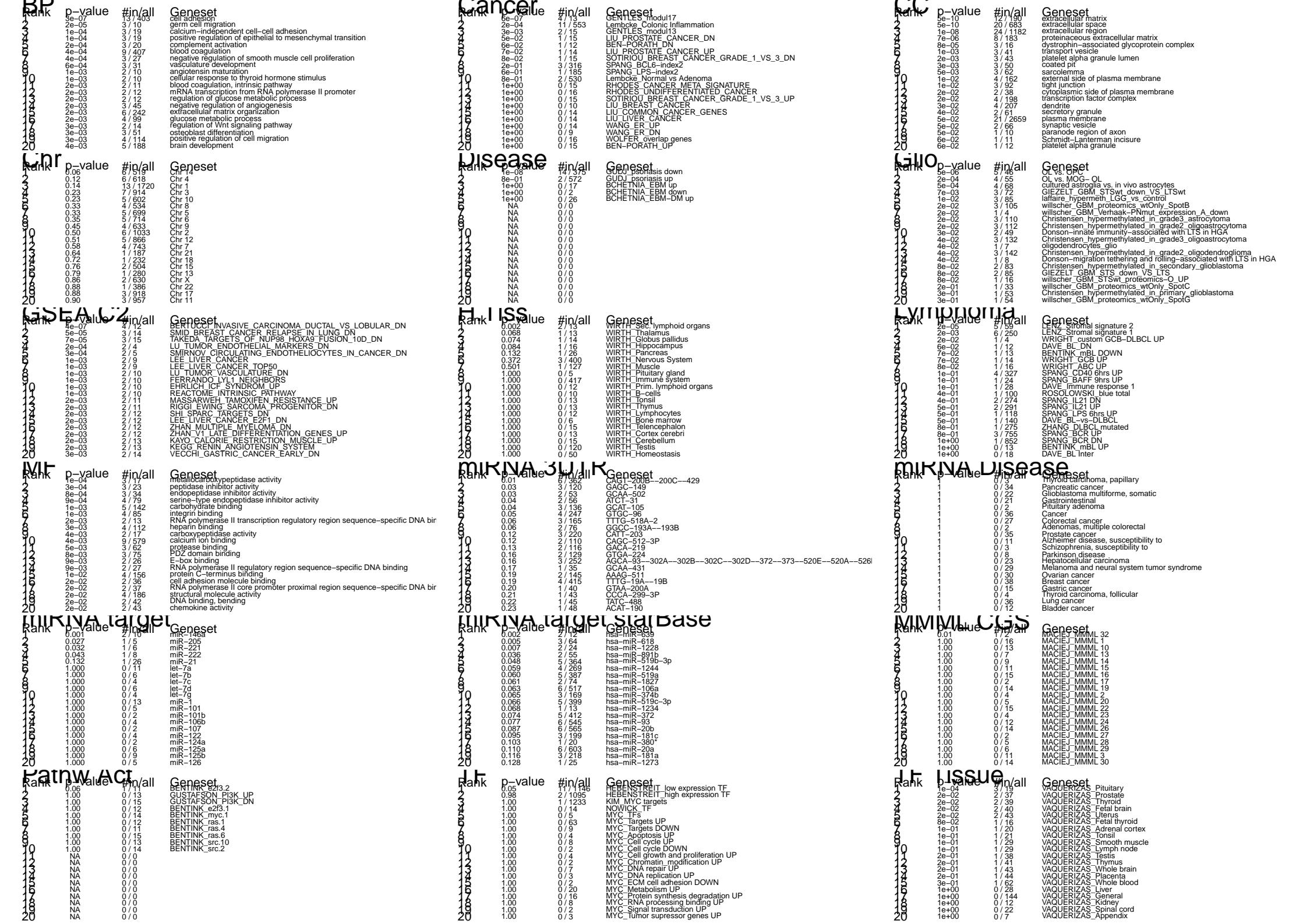


Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	347733	3.34	-1.41	0.47	TUBB2B tubulin, beta 2B class IIb [Source:HGNC Symbol;Acc:30829]		1	5e-10	12 / 190	CC extracellular matrix
2	347	3.19	-1.49	0.74	APOD apolipoprotein D [Source:HGNC Symbol;Acc:612]		2	5e-10	20 / 683	CC extracellular space
3	2532	2.7	-1.57	0.74	DARC Duffy blood group, atypical chemokine receptor [Source:HGNC Symbol;Acc:2532]		3	1e-08	24 / 1182	CC extracellular region
4	6358	2.45	-0.92	0.78	CCL14 chemokine (C-C motif) ligand 14 [Source:HGNC Symbol;Acc:6358]		4	1e-08	14 / 375	Disea GUDJU_psoriasis down
5	4256	2.36	-1.6	0.8	MGP matrix Gla protein [Source:HGNC Symbol;Acc:7060]		5	3e-07	13 / 403	BP cell adhesion
6	4239	2.35	-1.37	0.78	MFAP4 microfibrillar-associated protein 4 [Source:HGNC Symbol;Acc:4239]		6	4e-07	4 / 12	GSEA BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_DN
7	8404	2.29	-1.94	0.74	SPARCL SPARC-like 1 (hevin) [Source:HGNC Symbol;Acc:11220]		7	6e-07	4 / 13	Canc GENTLES_modul17
8	1805	2.24	-1.01	0.74	DPT dermatopontin [Source:HGNC Symbol;Acc:3011]		8	5e-06	5 / 46	Glio OL vs. OPC
9	3488	2.23	-2.24	0.64	IGFBP5 insulin-like growth factor binding protein 5 [Source:HGNC Symbol;Acc:3488]		9	7e-06	8 / 183	CC proteinaceous extracellular matrix
10	338773	2.2	-1.21	0.67	TMEM11 transmembrane protein 119 [Source:HGNC Symbol;Acc:2788]		10	2e-05	5 / 59	Lymph LENZ_Stromal signature 2
11	56892	2.2	-1.29	0.37	C8orf4 chromosome 8 open reading frame 4 [Source:HGNC Symbol;Acc:56892]		11	2e-05	3 / 10	BP germ cell migration
12	51176	2.16	-1.27	0.55	LEF1 lymphoid enhancer-binding factor 1 [Source:HGNC Symbol;Acc:51176]		12	5e-05	3 / 14	GSEA SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN
13	5166	2.14	-0.7	0.7	PDK4 pyruvate dehydrogenase kinase, isozyme 4 [Source:HGNC Symbol;Acc:5166]		13	7e-05	3 / 15	GSEA TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_DN
14	1359	2.14	-1.67	0.54	CPA3 carboxypeptidase A3 (mast cell) [Source:HGNC Symbol;Acc:1359]		14	8e-05	3 / 16	CC dystrophin-associated glycoprotein complex
15	90865	2.07	-0.95	0.57	IL33 interleukin 33 [Source:HGNC Symbol;Acc:16028]		15	1e-04	3 / 17	MF metallocarboxypeptidase activity
16	23705	2.03	-1.02	0.46	CADM1 cell adhesion molecule 1 [Source:HGNC Symbol;Acc:5951]		16	1e-04	3 / 19	BP calcium-independent cell-cell adhesion
17	7122	1.96	-0.98	0.51	CLDN5 claudin 5 [Source:HGNC Symbol;Acc:2047]		17	1e-04	3 / 19	BP positive regulation of epithelial to mesenchymal transition
18	2219	1.91	-0.89	0.58	FCN1 ficolin (collagen/fibrinogen domain containing) 1 [Source:HGNC Symbol;Acc:2219]		18	1e-04	3 / 19	TF TF VAQUERIZAS_Pituitary
19	6387	1.9	-0.76	0.81	CXCL12 chemokine (C-X-C motif) ligand 12 [Source:HGNC Symbol;Acc:6387]		19	2e-04	3 / 20	BP complement activation
20	1511	1.88	-1.23	0.64	CTSG cathepsin G [Source:HGNC Symbol;Acc:2532]		20	2e-04	2 / 4	GSEA LU_TUMOR_ENDOTHELIAL_MARKERS_DN
							21	2e-04	11 / 553	Canc Lembeck_Colonic Inflammation
							22	2e-04	4 / 55	Glio OL vs. MOG- OL
							23	3e-04	3 / 23	MF peptidase inhibitor activity
							24	3e-04	2 / 5	GSEA SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_DN
							25	4e-04	9 / 407	BP blood coagulation
							26	4e-04	3 / 27	BP negative regulation of smooth muscle cell proliferation
							27	5e-04	4 / 68	Glio cultured astroglia vs. in vivo astrocytes
							28	6e-04	3 / 31	BP vasculature development
							29	8e-04	3 / 34	MF endopeptidase inhibitor activity
							30	9e-04	4 / 79	MF serine-type endopeptidase inhibitor activity
							31	1e-03	2 / 9	GSEA LEE_LIVER_CANCER
							32	1e-03	2 / 9	GSEA LEE_LIVER_CANCER_TOP50
							33	1e-03	5 / 142	MF carbohydrate binding
							34	1e-03	4 / 85	MF integrin binding
							35	1e-03	2 / 10	BP angiotensin maturation
							36	1e-03	2 / 10	BP cellular response to thyroid hormone stimulus
							37	1e-03	2 / 10	GSEA LU_TUMOR_VASCULATURE_DN
							38	1e-03	2 / 10	GSEA FERRANDO_LYL1_NEIGHBORS
							39	1e-03	2 / 10	GSEA EHRLICH_ICF_SYNDSM_UP
							40	1e-03	2 / 10	GSEA REACTOME_INTRINSIC_PATHWAY

Geneset Overrepresentation





Sample–Overexpression

Spot Summary: J

metagenes = 10
genes = 211

<r> metagenes = 0.98

<r> genes = 0.51

beta: r2= 11.17 / log p= -Inf

samples with spot = 30 (10.9 %)

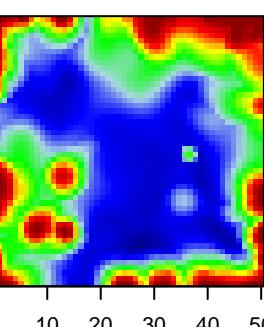
Atypical : 22 (29.7 %)

Classical : 1 (3.1 %)

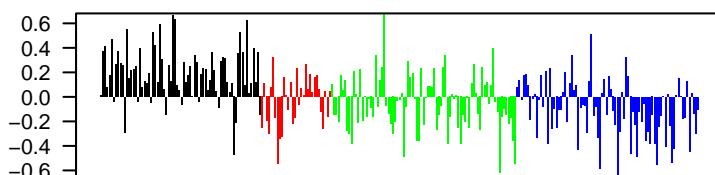
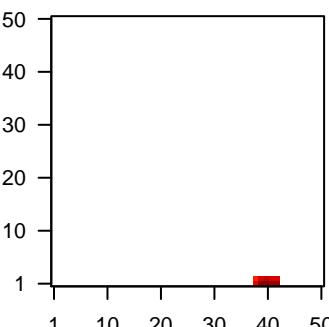
Mesenchymal : 4 (4.7 %)

Basal : 3 (3.6 %)

Overview Map



Spot

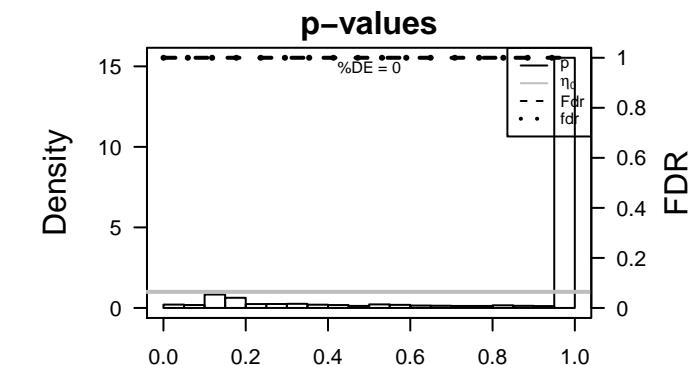


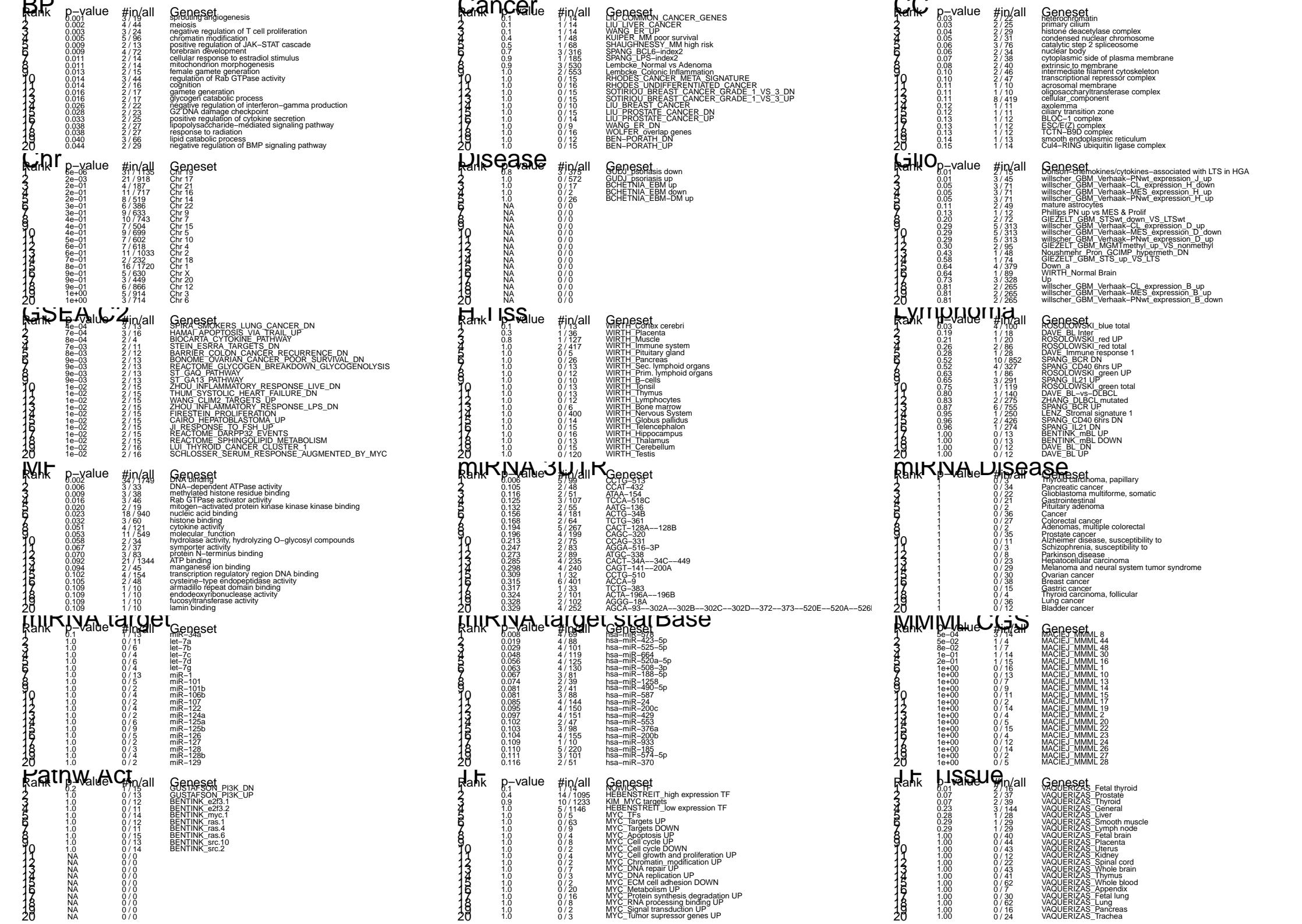
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	125050	2.79	-0.87	0.28	RNA, 7SK small nuclear [Source:HGNC Symbol;Acc:10037]	RN7SK	1	6e-06	31 / 1135	Chr Chr 19
2	84061	1.78	-1.53	0.84	magnesium transporter 1 [Source:HGNC Symbol;Acc:28880]	MAGT1	2	4e-04	3 / 13	GSEA_SPIRA_SMOKERS_LUNG_CANCER_DN
3	126205	1.77	-1.63	0.93	NLRP8 NLR family, pyrin domain containing 8 [Source:HGNC Symbol;Acc:10038]	NLRP8	3	5e-04	3 / 14	MMM_MACIEJ_MMML_8
4	51326	1.73	-1.07	0.41	ADP-ribosylation factor-like 17B [Source:HGNC Symbol;Acc:10039]	ARL17B	4	7e-04	3 / 16	GSEA_HAMAI_APOPTOSIS_VIA_TRAIL_UP
5	401261	1.68	-0.87	0.83			5	8e-04	2 / 4	GSEA_BIOCARTA_CYTOKINE_PATHWAY
6	79058	1.66	-1.01	0.63	ASPSCR11 alveolar soft part sarcoma chromosome region, candidate 1 [Source:HGNC Symbol;Acc:10040]	ASPSCR11	6	1e-03	3 / 19	BP sprouting angiogenesis
7	618	1.64	-1.41	0.41	BCYRN1 brain cytoplasmic RNA 1 [Source:HGNC Symbol;Acc:1022]	BCYRN1	7	2e-03	34 / 1749	MF DNA binding
8	400818	1.62	-1.99	0.69	AC239811 neuroblastoma breakpoint family member 1 [Source:UniProt]	AC239811	8	2e-03	4 / 44	BP meiosis
9	29944	1.58	-0.69	0.61	PNMA3 paraneoplastic Ma antigen 3 [Source:HGNC Symbol;Acc:187]	PNMA3	9	2e-03	21 / 918	Chr Chr 17
10	4851	1.57	-1.35	0.44	NOTCH1 notch 1 [Source:HGNC Symbol;Acc:7881]	NOTCH1	10	3e-03	3 / 24	BP negative regulation of T cell proliferation
11	25862	1.53	-1.56	0.93	USP49 ubiquitin specific peptidase 49 [Source:HGNC Symbol;Acc:202]	USP49	11	5e-03	5 / 96	BP chromatin modification
12	136051	1.51	-1.26	0.92	ZNF786 zinc finger protein 786 [Source:HGNC Symbol;Acc:21806]	ZNF786	12	6e-03	5 / 99	miRN CCTG-513
13	23466	1.49	-1.42	0.45	CBX6 chromobox homolog 6 [Source:HGNC Symbol;Acc:1556]	CBX6	13	6e-03	3 / 33	MF DNA-dependent ATPase activity
14	85452	1.49	-1.23	0.78	C1orf222 chromosome 1 open reading frame 222 [Source:HGNC Symt]	C1orf222	14	7e-03	2 / 11	GSEA_ST_ESRRRA_TARGETS_DN
15	55876	1.48	-0.91	0.71	GSDMB gasdermin B [Source:HGNC Symbol;Acc:23690]	GSDMB	15	8e-03	2 / 12	GSEA_BARRIER_COLON_CANCER_RECURRENCE_DN
16	80224	1.47	-1.22	0.9	NUBPL nucleotide binding protein-like [Source:HGNC Symbol;Acc:21807]	NUBPL	16	8e-03	4 / 69	miRN hsa-miR-578
17	375775	1.46	-0.65	0.63	PNPLA7 patatin-like phospholipase domain containing 7 [Source:HGNC Symbol;Acc:23653]	PNPLA7	17	9e-03	3 / 38	MF methylated histone residue binding
18	728903	1.45	-1.04	0.66			18	9e-03	2 / 13	BP positive regulation of JAK-STAT cascade
19	399761	1.43	-1.23	0.72	BMS1P5 BMS1 pseudogene 5 [Source:HGNC Symbol;Acc:23653]	BMS1P5	19	9e-03	2 / 13	GSEA_BONOME_OVARIAN_CANCER_POOR_SURVIVAL_DN
20	286257	1.42	-0.82	0.51	C9orf142 chromosome 9 open reading frame 142 [Source:HGNC Symt]	C9orf142	20	9e-03	2 / 13	GSEA.REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-06	31 / 1135	Chr Chr 19
2	4e-04	3 / 13	GSEA_SPIRA_SMOKERS_LUNG_CANCER_DN
3	5e-04	3 / 14	MMM_MACIEJ_MMML_8
4	7e-04	3 / 16	GSEA_HAMAI_APOPTOSIS_VIA_TRAIL_UP
5	8e-04	2 / 4	GSEA_BIOCARTA_CYTOKINE_PATHWAY
6	1e-03	3 / 19	BP sprouting angiogenesis
7	2e-03	34 / 1749	MF DNA binding
8	2e-03	4 / 44	BP meiosis
9	2e-03	21 / 918	Chr Chr 17
10	3e-03	3 / 24	BP negative regulation of T cell proliferation
11	5e-03	5 / 96	BP chromatin modification
12	6e-03	5 / 99	miRN CCTG-513
13	6e-03	3 / 33	MF DNA-dependent ATPase activity
14	7e-03	2 / 11	GSEA_ST_ESRRRA_TARGETS_DN
15	8e-03	2 / 12	GSEA_BARRIER_COLON_CANCER_RECURRENCE_DN
16	8e-03	4 / 69	miRN hsa-miR-578
17	9e-03	3 / 38	MF methylated histone residue binding
18	9e-03	2 / 13	BP positive regulation of JAK-STAT cascade
19	9e-03	2 / 13	GSEA_BONOME_OVARIAN_CANCER_POOR_SURVIVAL_DN
20	9e-03	2 / 13	GSEA.REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS





Sample–Overexpression

Spot Summary: K

metagenes = 60
genes = 766

<r> metagenes = 0.81

<r> genes = 0.24

beta: r2= 9.62 / log p= -Inf

samples with spot = 14 (5.1 %)

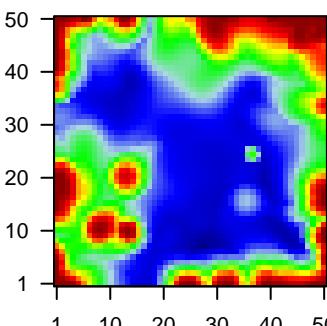
Atypical : 3 (4.1 %)

Classical : 8 (25 %)

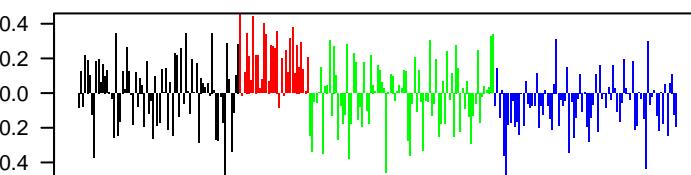
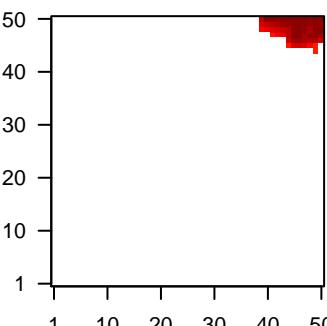
Mesenchymal : 2 (2.4 %)

Basal : 1 (1.2 %)

Overview Map



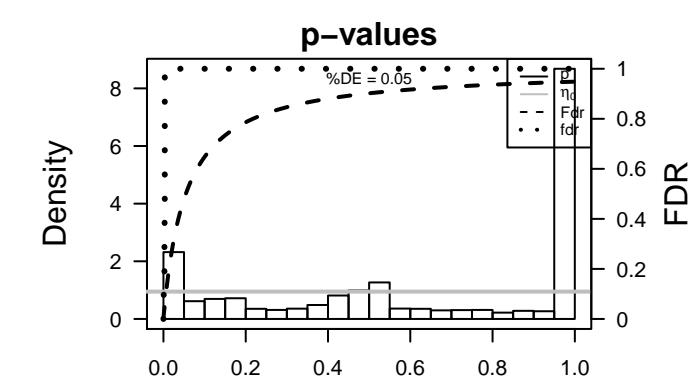
Spot

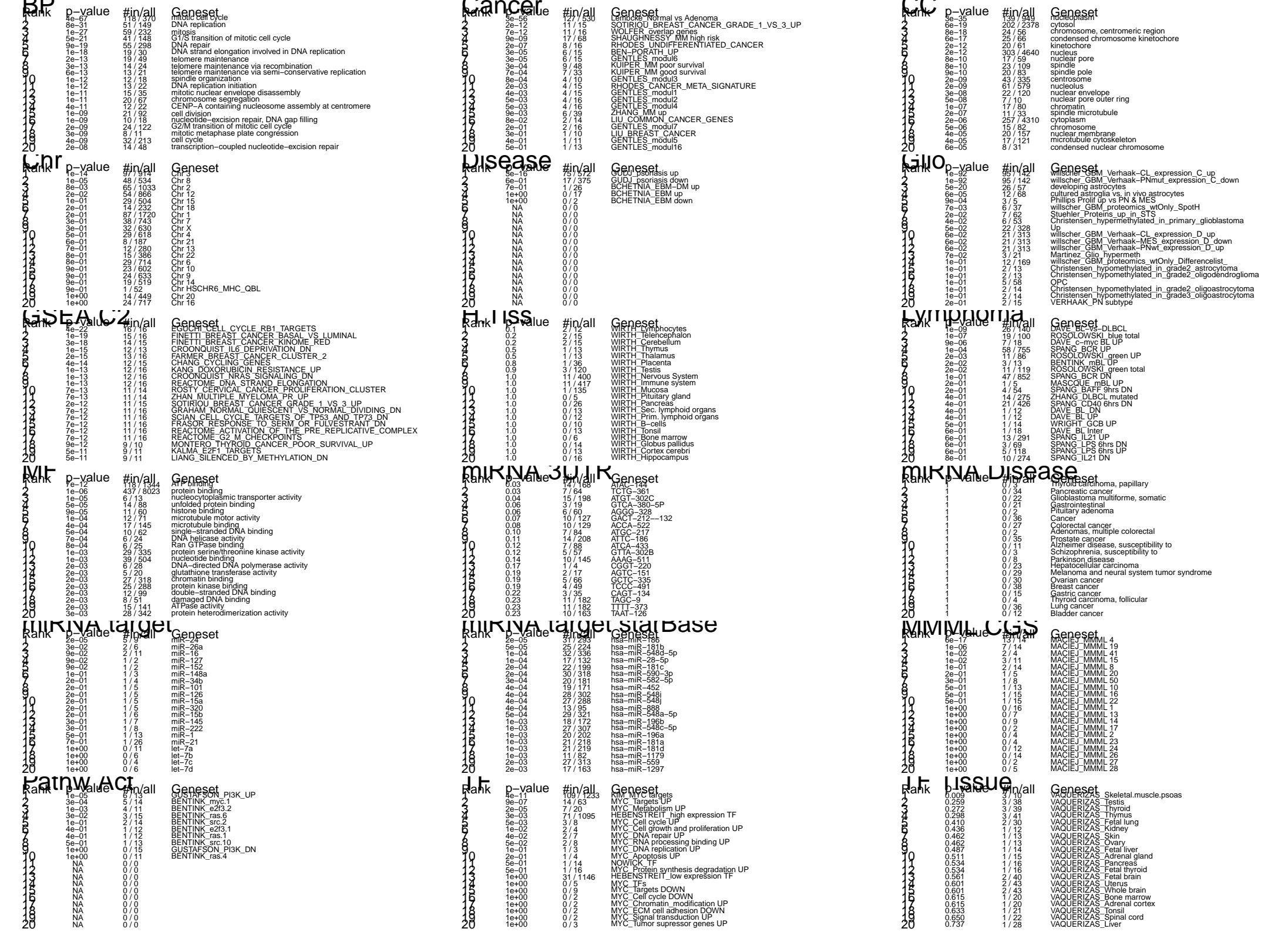


Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	4922	5.09	-1.67	0.69	NTS	neurotensin [Source:HGNC Symbol;Acc:8038]	1	1e-92	95 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	2938	3.6	-1.05	0.56	GSTA2	glutathione S-transferase alpha 2 [Source:HGNC Symbol;Acc:17171]	2	1e-92	95 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	3880	3.42	-4.05	0.56	KRT19	keratin 19 [Source:HGNC Symbol;Acc:6436]	3	4e-67	118 / 370	BP mitotic cell cycle
4	3866	3.23	-3.16	0.46	KRT15	keratin 15 [Source:HGNC Symbol;Acc:6421]	4	3e-56	127 / 530	Cancer Lembeck_Normal_vs_Adenoma
5	1056	3.22	-1.53	0.5	CEL	carboxyl ester lipase [Source:HGNC Symbol;Acc:1848]	5	3e-35	139 / 949	CC nucleoplasm
6	7345	3	-1.41	0.43	UCHL1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterases)	6	8e-31	51 / 149	BP DNA replication
7	216	2.99	-2.41	0.63	ALDH1A1	aldehyde dehydrogenase 1 family, member A1 [Source:HGNC Symbol;Acc:17171]	7	1e-27	59 / 232	BP mitosis
8	83888	2.98	-0.56	0.37	FGFBP2	fibroblast growth factor binding protein 2 [Source:HGNC Symbol;Acc:17171]	8	4e-22	16 / 16	GSE/ EGUCHI_CELL_CYCLE_RB1_TARGETS
9	154664	2.78	-1.49	0.67	ABCA13	ATP-binding cassette, sub-family A (ABC1), member 13 [Source:HGNC Symbol;Acc:17171]	9	5e-21	41 / 148	BP G1/S transition of mitotic cell cycle
10	2944	2.69	-1.57	0.43	GSTM1	glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:4151]	10	5e-20	26 / 57	Glio developing astrocytes
11	339512	2.68	-1.34	0.5	C1orf110	chromosome 1 open reading frame 110 [Source:HGNC Symbol;Acc:17171]	11	1e-19	15 / 16	GSE/ FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
12	3856	2.63	-2.21	0.46	KRT8P3	keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]	12	6e-19	202 / 2378	CC cytosol
13	26047	2.62	-1.61	0.31	CNTNAP2	contactin associated protein-like 2 [Source:HGNC Symbol;Acc:17171]	13	9e-19	55 / 298	BP DNA repair
14	2719	2.58	-0.74	0.53	GPC3	glycan 3 [Source:HGNC Symbol;Acc:4451]	14	1e-18	19 / 30	BP DNA strand elongation involved in DNA replication
15	84171	2.55	-1.19	0.37	LOXL4	lysyl oxidase-like 4 [Source:HGNC Symbol;Acc:17171]	15	3e-18	14 / 15	GSE/ FINETTI_BREAST_CANCER_KINOME_RED
16	11166	2.55	-1.98	0.68	SOX21	SRY (sex determining region Y)-box 21 [Source:HGNC Symbol;Acc:17171]	16	8e-18	24 / 56	CC chromosome, centromeric region
17	4072	2.5	-2.3	0.71	EPCAM	epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:17171]	17	6e-17	25 / 66	CC condensed chromosome kinetochore
18	139728	2.48	-1.61	0.51	PNCK	pregnancy up-regulated nonubiquitous CaM kinase [Source:HGNC Symbol;Acc:17171]	18	6e-17	13 / 14	MMM MACIEJ_MMML 4
19	4915	2.4	-1.19	0.75	NTRK2	neurotrophic tyrosine kinase, receptor, type 2 [Source:HGNC Symbol;Acc:17171]	19	3e-16	75 / 572	Disea/ GUDJ_psoriasis up
20	2947	2.4	-0.99	0.43	GSTM3	glutathione S-transferase mu 3 (brain) [Source:HGNC Symbol;Acc:4151]	20	1e-15	12 / 13	GSE/ CROONQUIST_IL6_DEPRIVATION_DN
							21	2e-15	13 / 16	GSE/ FARMER_BREAST_CANCER_CLUSTER_2
							22	1e-14	97 / 914	Chr Chr 3
							23	4e-14	12 / 15	GSE/ CHANG_CYCLING_GENES
							24	1e-13	12 / 16	GSE/ KANG_DOXORUBICIN_RESISTANCE_UP
							25	1e-13	12 / 16	GSE/ CROONQUIST_NRAS_SIGNALING_DN
							26	1e-13	12 / 16	GSE/ REACTOME_DNA_STRAND_ELONGATION
							27	2e-13	19 / 49	BP telomere maintenance
							28	3e-13	14 / 24	BP telomere maintenance via recombination
							29	6e-13	13 / 21	BP telomere maintenance via semi-conservative replication
							30	7e-13	11 / 14	GSE/ ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
							31	7e-13	11 / 14	GSE/ ZHAN_MULTIPLE_MYELOMA_PR_UP
							32	1e-12	12 / 18	BP spindle organization
							33	1e-12	13 / 22	BP DNA replication initiation
							34	2e-12	20 / 61	CC kinetochore
							35	2e-12	303 / 4640	CC nucleus
							36	2e-12	11 / 15	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
							37	7e-12	11 / 16	Cancer WOLFER_overlap genes
							38	7e-12	11 / 16	GSE/ GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_DN
							39	7e-12	11 / 16	GSE/ SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN
							40	7e-12	11 / 16	GSE/ FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN

Geneset Overrepresentation





Sample–Overexpression

Spot Summary: L

metagenes = 18
genes = 348

<r> metagenes = 0.92

<r> genes = 0.32

beta: r2= 24.27 / log p= -Inf

samples with spot = 48 (17.5 %)

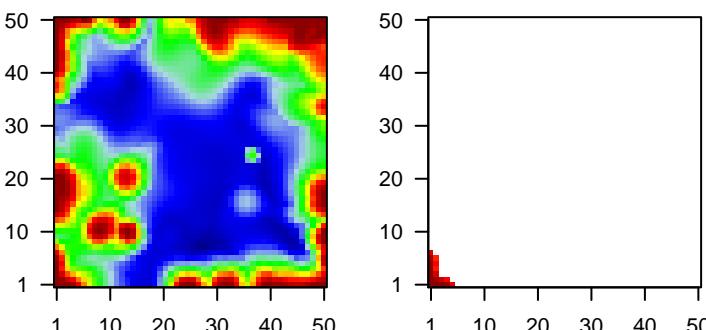
Atypical : 3 (4.1 %)

Classical : 1 (3.1 %)

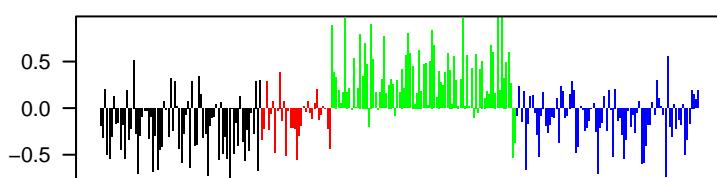
Mesenchymal : 43 (50.6 %)

Basal : 1 (1.2 %)

Overview Map



Spot



Spot Genelist

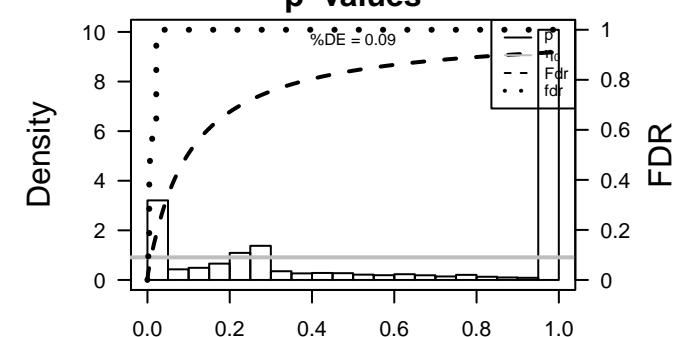
Rank	ID	max e	min e	r	Description	Symbol
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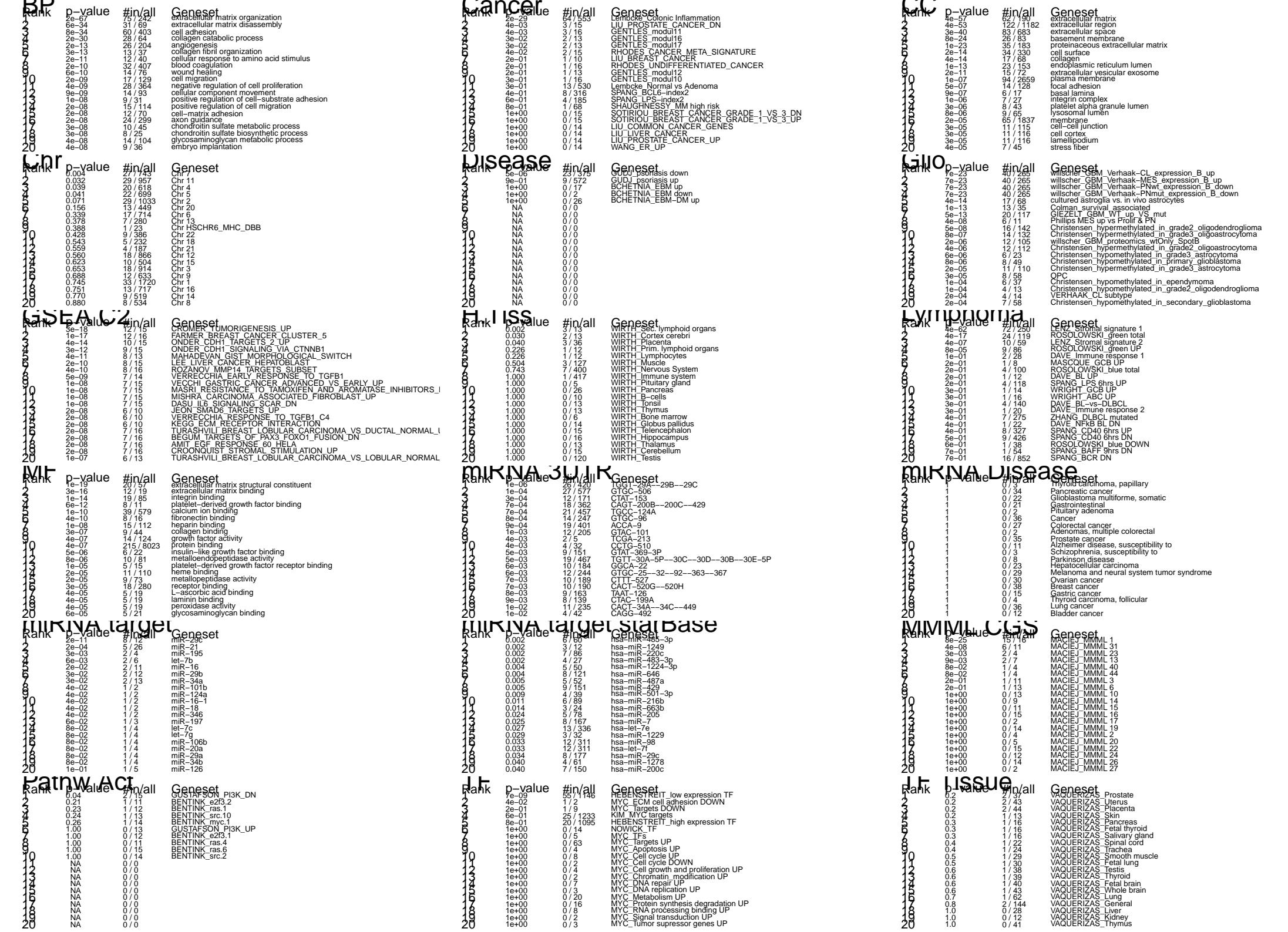
Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	4319	4.09	-2.68	0.57	MMP10 matrix metallopeptidase 10 (stromelysin 2) [Source:HGNC Symbol;Acc:6125]	MMP10	1	2e-67	75 / 242	BP extracellular matrix organization
2	12	3.84	-2.36	0.4	RP11-986E7.7		2	4e-62	72 / 250	Lymp LENZ_Stromal signature 1
3	3040	3.64	-2.76	0.32	HBA2 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]	HBA2	3	4e-57	62 / 190	CC extracellular matrix
4	401138	3.58	-1.16	0.28	AMTN amelotin [Source:HGNC Symbol;Acc:33188]	AMTN	4	4e-53	122 / 1182	CC extracellular region
5	6696	3.4	-1.67	0.39	SPP1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:1125]	SPP1	5	3e-40	83 / 683	CC extracellular space
6	4316	3.39	-2.29	0.41	MMP7 matrix metallopeptidase 7 (matriLyisin, uterine) [Source:HGNC Symbol;Acc:4827]	MMP7	6	6e-34	31 / 69	BP extracellular matrix disassembly
7	4322	3.32	-1.16	0.59	MMP13 matrix metallopeptidase 13 (collagenase 3) [Source:HGNC Symbol;Acc:4828]	MMP13	7	8e-34	60 / 403	BP cell adhesion
8	4314	3.31	-3.02	0.71	MMP3 matrix metallopeptidase 3 (stromelysin 1, progelatinase) [Source:HGNC Symbol;Acc:4829]	MMP3	8	2e-30	28 / 64	BP collagen catabolic process
9	3569	3.28	-1.5	0.62	IL6 interleukin 6 (interferon, beta 2) [Source:HGNC Symbol;Acc:6126]	IL6	9	2e-29	64 / 553	Cancer Lembeck_Colon Inflammation
10	3043	3.2	-3.29	0.32	HBB hemoglobin, beta [Source:HGNC Symbol;Acc:4827]	HBB	10	8e-25	15 / 16	MMM MACIEJ_MMML_1
11	3039	3.15	-1.75	0.3	HBA2 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]	HBA2	11	8e-24	26 / 83	CC basement membrane
12	6374	3.14	-0.9	0.59	CXCL5 chemokine (C-X-C motif) ligand 5 [Source:HGNC Symbol;Acc:4830]	CXCL5	12	1e-23	35 / 183	CC proteoglycanous extracellular matrix
13	3553	3.13	-2.37	0.54	IL1B interleukin 1, beta [Source:HGNC Symbol;Acc:5992]	IL1B	13	7e-23	40 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
14	414062	3.13	-2.13	0.52	CCL3L3 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbol;Acc:5993]	CCL3L3	14	7e-23	40 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
15	6372	3.07	-1.65	0.49	CXCL6 chemokine (C-X-C motif) ligand 6 [Source:HGNC Symbol;Acc:4831]	CXCL6	15	7e-23	40 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
16	55107	3.05	-2.27	0.44	ANO1 anoctamin 1, calcium activated chloride channel [Source:HGNC Symbol;Acc:4832]	ANO1	16	7e-23	40 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
17	2201	2.99	-1.35	0.29	FBN2 fibrillin 2 [Source:HGNC Symbol;Acc:3604]	FBN2	17	1e-19	20 / 57	MF extracellular matrix structural constituent
18	3576	2.96	-2.98	0.58	IL8 interleukin 8 [Source:HGNC Symbol;Acc:6025]	IL8	18	3e-18	12 / 15	GSE/ CROMER_TUMORIGENESIS_UP
19	4320	2.88	-1.94	0.49	MMP11 matrix metallopeptidase 11 (stromelysin 3) [Source:HGNC Symbol;Acc:4833]	MMP11	19	1e-17	12 / 16	GSE/ FARMER_BREAST_CANCER_CLUSTER_5
20	8988	2.87	-1.41	0.38	HSPB3 heat shock 27kDa protein 3 [Source:HGNC Symbol;Acc:5248]	HSPB3	20	4e-17	24 / 119	Lymp ROSOLOWSKI_green total

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-67	75 / 242	BP extracellular matrix organization
2	4e-62	72 / 250	Lymp LENZ_Stromal signature 1
3	4e-57	62 / 190	CC extracellular matrix
4	4e-53	122 / 1182	CC extracellular region
5	3e-40	83 / 683	CC extracellular space
6	6e-34	31 / 69	BP extracellular matrix disassembly
7	8e-34	60 / 403	BP cell adhesion
8	2e-30	28 / 64	BP collagen catabolic process
9	2e-29	64 / 553	Cancer Lembeck_Colon Inflammation
10	8e-25	15 / 16	MMM MACIEJ_MMML_1
11	8e-24	26 / 83	CC basement membrane
12	1e-23	35 / 183	CC proteoglycanous extracellular matrix
13	7e-23	40 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
14	7e-23	40 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
15	7e-23	40 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
16	7e-23	40 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
17	1e-19	20 / 57	MF extracellular matrix structural constituent
18	3e-18	12 / 15	GSE/ CROMER_TUMORIGENESIS_UP
19	1e-17	12 / 16	GSE/ FARMER_BREAST_CANCER_CLUSTER_5
20	4e-17	24 / 119	Lymp ROSOLOWSKI_green total

p-values





Sample–Overexpression

Spot Summary: M

metagenes = 32
genes = 354

$\langle r \rangle$ metagenes = 0.93

$\langle r \rangle$ genes = 0.27

beta: $r^2 = 5.97$ / log p= -Inf

samples with spot = 13 (4.7 %)

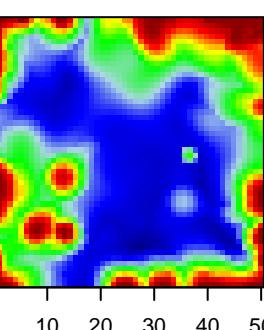
Atypical : 3 (4.1 %)

Classical : 1 (3.1 %)

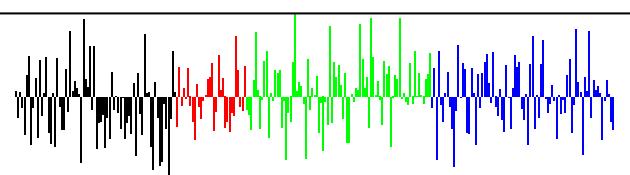
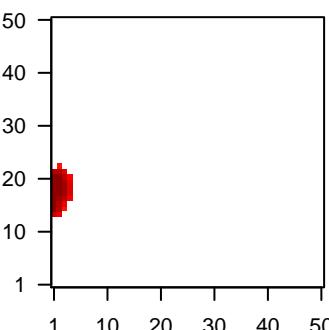
Mesenchymal : 6 (7.1 %)

Basal : 3 (3.6 %)

Overview Map



Spot

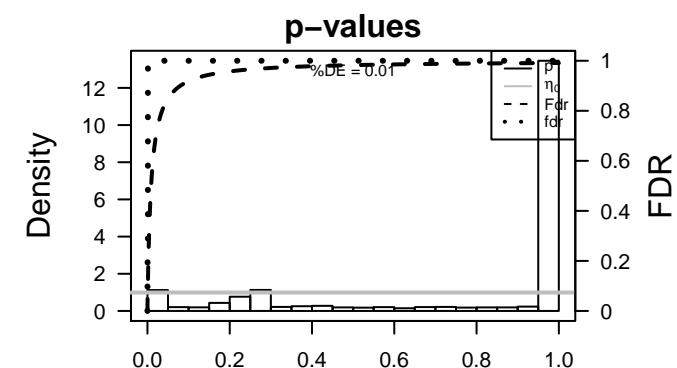


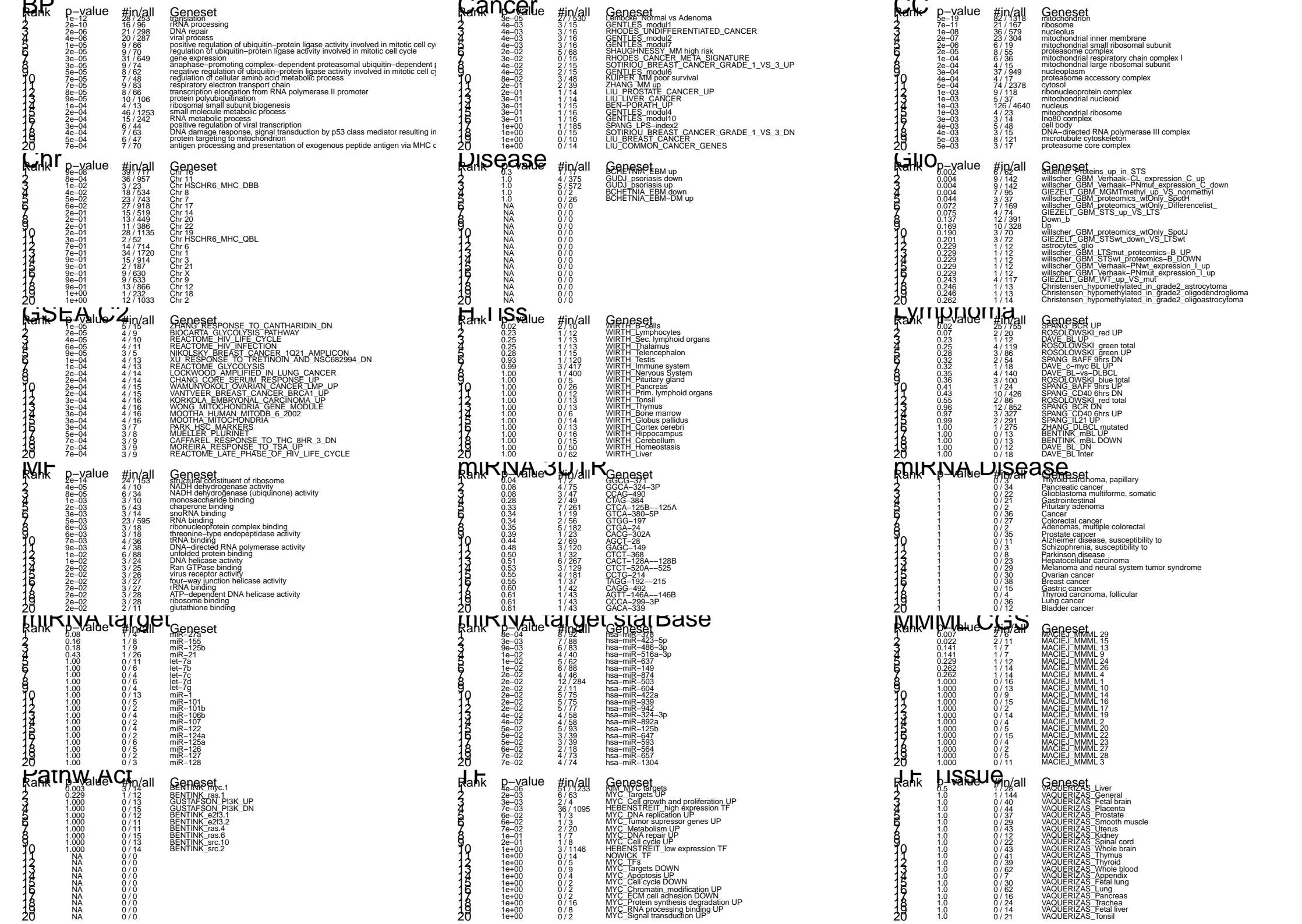
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol
1	283869	2.84	-1.53	0.53	NPW	neuropeptide W [Source:HGNC Symbol;Acc:30509]
2	4495	2.82	-1.79	0.21	MT1G	metallothionein 1G [Source:HGNC Symbol;Acc:7399]
3	220064	2.61	-1.08	0.48	ORAOV1	oral cancer overexpressed 1 [Source:HGNC Symbol;Acc:175]
4	10202	2.48	-0.58	0.41	DHRS2	dehydrogenase/reductase (SDR family) member 2 [Source:HGNC Symbol;Acc:26874]
5	284085	2.29	-1.64	0.42	KRT18P5	keratin 18 pseudogene 55 [Source:HGNC Symbol;Acc:26874]
6	131076	2.28	-1.53	0.33	CCDC58	coiled-coil domain containing 58 [Source:HGNC Symbol;Acc:26874]
7	51083	2.28	-0.81	0.5	GAL	galanin/GMAP prepropeptide [Source:HGNC Symbol;Acc:4174]
8	8772	2.18	-1.29	0.52	FADD	Fas (TNFRSF6)-associated via death domain [Source:HGNC Symbol;Acc:26874]
9	51702	2.13	-1.03	0.26	PADI3	peptidyl arginine deiminase, type III [Source:HGNC Symbol;Acc:26874]
10	1152	2.07	-1.8	0.37	CKB	creatine kinase, brain [Source:HGNC Symbol;Acc:1991]
11	219931	2.01	-0.93	0.56	TPCN2	two pore segment channel 2 [Source:HGNC Symbol;Acc:208]
12	51373	1.97	-1.11	0.64	MRPS1728S	ribosomal protein S17, mitochondrial; HCG1984214, isoform 1 [Source:HGNC Symbol;Acc:26874]
13	2017	1.86	-1.24	0.42	CTTN	cortactin [Source:HGNC Symbol;Acc:3338]
14	219927	1.84	-0.94	0.54	MRPL21	mitochondrial ribosomal protein L21 [Source:HGNC Symbol;Acc:26874]
15	2821	1.69	-0.94	0.44	GPI	glucose-6-phosphate isomerase [Source:HGNC Symbol;Acc:26874]
16	23246	1.68	-1.14	0.75	BOP1	block of proliferation 1 [Source:HGNC Symbol;Acc:15519]
17	93273	1.67	-0.94	0.31	LEMD1	LEM domain containing 1 [Source:HGNC Symbol;Acc:18725]
18	230	1.64	-1.33	0.36	ALDOC	aldolase C, fructose-bisphosphate [Source:HGNC Symbol;Acc:26874]
19	430	1.64	-1.34	0.32	ASCL2	achaete-scute family bHLH transcription factor 2 [Source:HGNC Symbol;Acc:26874]
20	6884	1.58	-1	0.52	TAF13	TAF13 RNA polymerase II, TATA box binding protein (TBP)-a [Source:HGNC Symbol;Acc:26874]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-19	82 / 1318	CC mitochondrion
2	2e-14	24 / 153	MF structural constituent of ribosome
3	1e-12	28 / 253	BP translation
4	7e-11	21 / 167	CC ribosome
5	2e-10	16 / 96	BP rRNA processing
6	1e-08	36 / 579	CC nucleolus
7	9e-08	39 / 717	Chr Chr 16
8	2e-07	23 / 304	CC mitochondrial inner membrane
9	2e-06	21 / 298	BP DNA repair
10	2e-06	6 / 19	CC mitochondrial small ribosomal subunit
11	4e-06	20 / 287	BP viral process
12	4e-06	51 / 1233	TF KIM_MYC targets
13	1e-05	9 / 66	BP positive regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
14	1e-05	5 / 15	GSE/ ZHANG_RESPONSE_TO_CANTHARIDIN_DN
15	2e-05	9 / 70	BP regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
16	2e-05	8 / 55	CC proteasome complex
17	2e-05	4 / 9	GSE/ BIOARTA_GLYCOLYSIS_PATHWAY
18	3e-05	31 / 649	BP gene expression
19	3e-05	9 / 74	BP anaphase-promoting complex-dependent proteasomal ubiquitin-dependent proteolysis
20	3e-05	27 / 530	Cancer Lembcke_Normal vs Adenoma
21	4e-05	4 / 10	MF NADH dehydrogenase activity
22	4e-05	4 / 10	GSE/ REACTOME_HIV_LIFE_CYCLE
23	5e-05	8 / 62	BP negative regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
24	6e-05	4 / 11	GSE/ REACTOME_HIV_INFECTION
25	7e-05	7 / 48	BP regulation of cellular amino acid metabolic process
26	7e-05	9 / 83	BP respiratory electron transport chain
27	8e-05	6 / 34	MF NADH dehydrogenase (ubiquinone) activity
28	8e-05	8 / 66	BP transcription elongation from RNA polymerase II promoter
29	9e-05	10 / 106	BP protein polyubiquitination
30	9e-05	3 / 5	GSE/ NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON
31	1e-04	6 / 36	CC mitochondrial respiratory chain complex I
32	1e-04	4 / 13	BP ribosomal small subunit biogenesis
33	1e-04	4 / 13	GSE/ XU_RESPONSE_TO_TRETINOIN_AND_NSC682994_DN
34	1e-04	4 / 13	GSE/ REACTOME_GLYCOLYSIS
35	2e-04	4 / 14	GSE/ LOCKWOOD_AMPLIFIED_IN_LUNG_CANCER
36	2e-04	4 / 14	GSE/ CHANG_CORE_SERUM_RESPONSE_UP
37	2e-04	4 / 15	CC mitochondrial large ribosomal subunit
38	2e-04	4 / 15	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
39	2e-04	4 / 15	GSE/ VANTVEER_BREAST_CANCER_BRCA1_UP
40	2e-04	46 / 1253	BP small molecule metabolic process





Sample–Overexpression

Spot Summary: N

metagenes = 8
genes = 101

<r> metagenes = 0.99

<r> genes = 0.65

beta: r2= 10.8 / log p= -Inf

samples with spot = 39 (14.2 %)

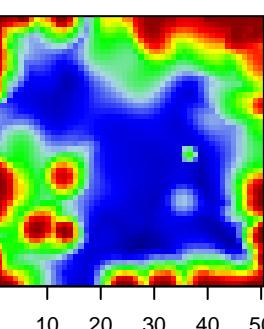
Atypical : 9 (12.2 %)

Classical : 4 (12.5 %)

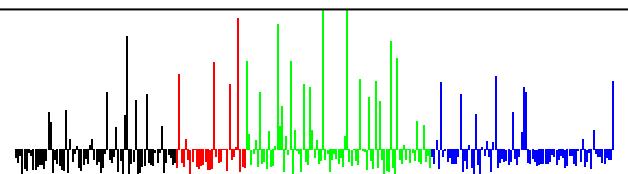
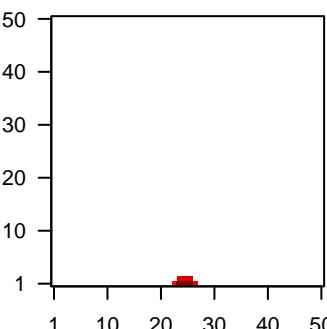
Mesenchymal : 18 (21.2 %)

Basal : 8 (9.5 %)

Overview Map



Spot



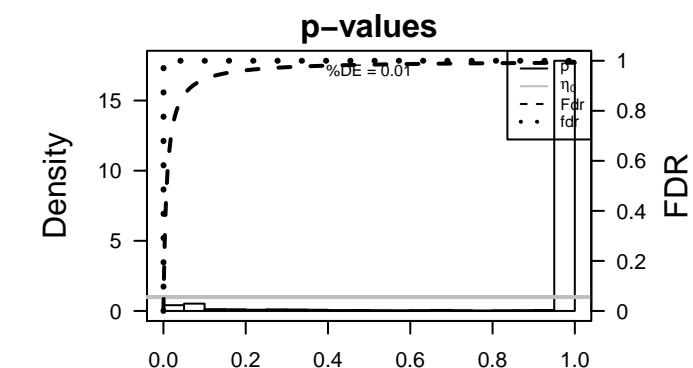
Spot Genelist

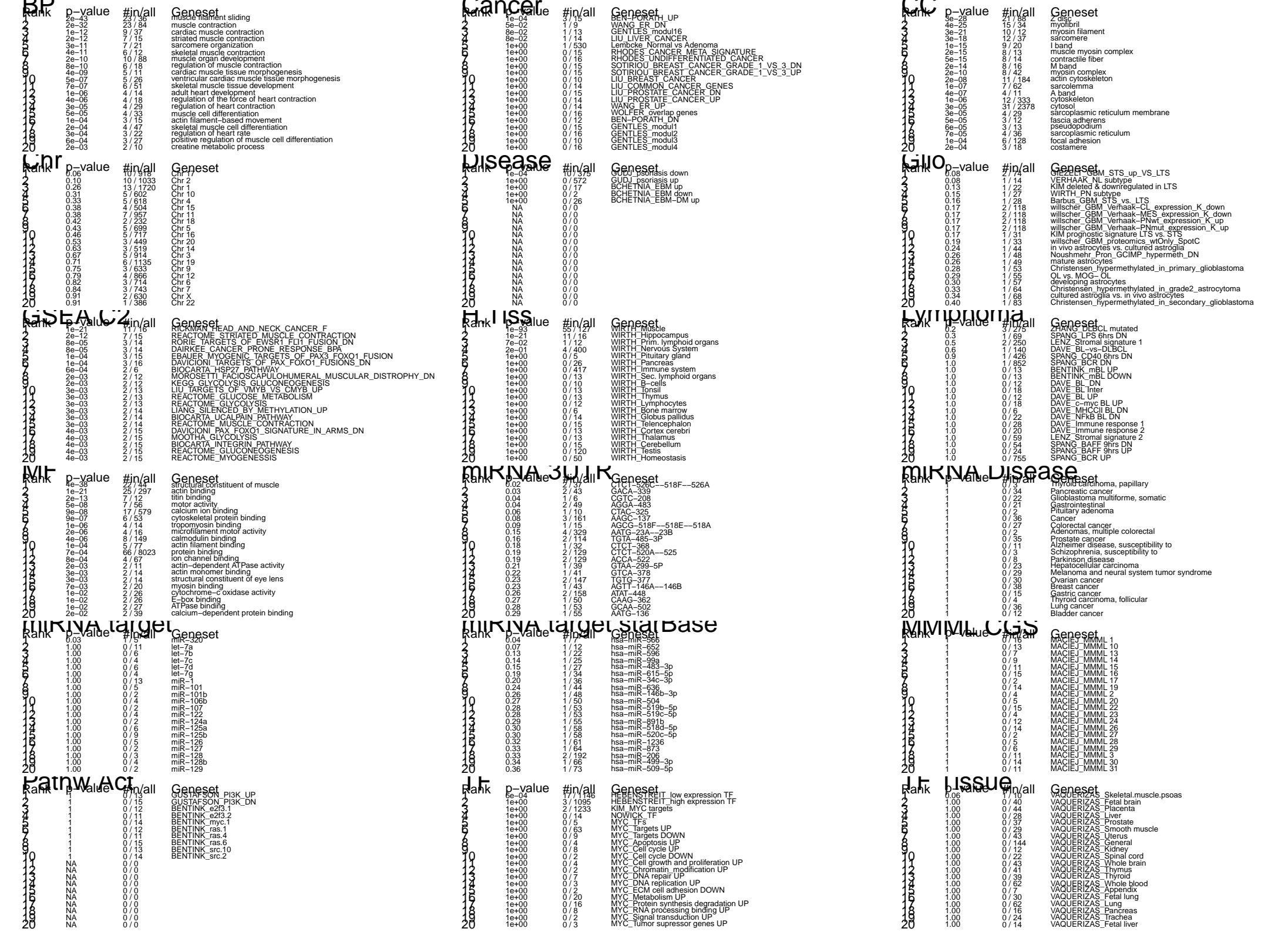
Rank	ID	max e	min e	r	Description	Symbol
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Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	58	5.49	-1.44	0.9	actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:1214]	ACTA1	1	1e-93	55 / 127	H.Tiss: WIRTH_Muscle
2	6588	4.37	-1.29	0.91	sarcolipin [Source:HGNC Symbol;Acc:11089]	SLN	2	2e-43	23 / 36	BP: muscle filament sliding
3	1158	4.27	-0.93	0.93	creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]	CKM	3	4e-38	22 / 44	MF: structural constituent of muscle
4	283120	4.19	-2.42	0.34	H19, imprinted maternally expressed transcript (non-protein coding)	H19	4	2e-32	23 / 84	BP: muscle contraction
5	4620	3.96	-0.75	0.92	myosin, heavy chain 2, skeletal muscle, adult [Source:HGNC Symbol;Acc:1469]	MYH2	5	3e-28	21 / 88	CC: Z disc
6	70	3.94	-1.03	0.89	actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:1468]	ACTC1	6	4e-25	15 / 34	CC: myofibril
7	4151	3.51	-0.93	0.9	myoglobin [Source:HGNC Symbol;Acc:6915]	MB	7	1e-21	25 / 297	MF: actin binding
8	10324	3.47	-0.7	0.95	kelch-like family member 41 [Source:HGNC Symbol;Acc:169]	KLHL41	8	1e-21	11 / 16	H.Tiss: WIRTH_Hippocampus
9	4625	3.27	-0.73	0.88	myosin, heavy chain 7, cardiac muscle, beta [Source:HGNC Symbol;Acc:1467]	MYH7	9	1e-21	11 / 16	GSEA: RICKMAN_HEAD_AND_NECK_CANCER_F
10	4633	3.2	-0.7	0.91	myosin, light chain 2, regulatory, cardiac, slow [Source:HGNC Symbol;Acc:1466]	MYL2	10	3e-21	10 / 12	CC: myosin filament
11	7134	3.18	-0.66	0.93	troponin C type 1 (slow) [Source:HGNC Symbol;Acc:11943]	TNNC1	11	3e-18	12 / 37	CC: sarcomere
12	7060	3.17	-1.31	0.74	thrombospondin 4 [Source:HGNC Symbol;Acc:11788]	THBS4	12	1e-15	9 / 20	CC: I band
13	8557	3.15	-0.57	0.95	titin-cap [Source:HGNC Symbol;Acc:11610]	TCAP	13	2e-15	8 / 13	CC: muscle myosin complex
14	4703	3.13	-0.92	0.88	nebulin [Source:HGNC Symbol;Acc:7720]	NEB	14	5e-15	8 / 14	CC: contractile fiber
15	4608	3.11	-0.84	0.84	myosin binding protein H [Source:HGNC Symbol;Acc:7552]	MYBPH	15	2e-14	8 / 16	CC: M band
16	1917	3.04	-1.6	0.56	eukaryotic translation elongation factor 1 alpha 2 [Source:HGNC Symbol;Acc:11942]	EEF1A2	16	2e-13	7 / 12	MF: titin binding
17	9499	3.03	-0.66	0.93	myotilin [Source:HGNC Symbol;Acc:12399]	MYOT	17	1e-12	9 / 37	BP: cardiac muscle contraction
18	2318	3	-1.57	0.81	filamin C, gamma [Source:HGNC Symbol;Acc:3756]	FLNC	18	2e-12	7 / 15	BP: striated muscle contraction
19	4619	2.82	-0.5	0.88	myosin, heavy chain 1, skeletal muscle, adult [Source:HGNC Symbol;Acc:1465]	MYH1	19	3e-12	7 / 21	BP: sarcomere organization
20	4606	2.79	-0.54	0.92	myosin binding protein C, fast type [Source:HGNC Symbol;Acc:1160]	MYBPC2	20	3e-11	6 / 12	BP: skeletal muscle contraction

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-93	55 / 127	H.Tiss: WIRTH_Muscle
2	2e-43	23 / 36	BP: muscle filament sliding
3	4e-38	22 / 44	MF: structural constituent of muscle
4	2e-32	23 / 84	BP: muscle contraction
5	3e-28	21 / 88	CC: Z disc
6	4e-25	15 / 34	CC: myofibril
7	1e-21	25 / 297	MF: actin binding
8	1e-21	11 / 16	H.Tiss: WIRTH_Hippocampus
9	1e-21	11 / 16	GSEA: RICKMAN_HEAD_AND_NECK_CANCER_F
10	3e-21	10 / 12	CC: myosin filament
11	3e-18	12 / 37	CC: sarcomere
12	1e-15	9 / 20	CC: I band
13	2e-15	8 / 13	CC: muscle myosin complex
14	5e-15	8 / 14	CC: contractile fiber
15	2e-14	8 / 16	CC: M band
16	2e-13	7 / 12	MF: titin binding
17	1e-12	9 / 37	BP: cardiac muscle contraction
18	2e-12	7 / 15	BP: striated muscle contraction
19	3e-12	7 / 21	BP: sarcomere organization
20	3e-11	6 / 12	BP: skeletal muscle contraction
21	4e-11	6 / 12	BP: muscle organ development
22	2e-10	10 / 88	BP: regulation of muscle contraction
23	2e-10	8 / 42	CC: myosin complex
24	8e-10	6 / 18	BP: regulation of muscle contraction
25	4e-09	5 / 11	BP: cardiac muscle tissue morphogenesis
26	2e-08	11 / 184	CC: actin cytoskeleton
27	5e-08	7 / 56	MF: motor activity
28	9e-08	17 / 579	MF: calcium ion binding
29	1e-07	7 / 62	CC: sarcolemma
30	4e-07	4 / 11	CC: A band
31	5e-07	5 / 26	BP: ventricular cardiac muscle tissue morphogenesis
32	7e-07	6 / 51	BP: skeletal muscle tissue development
33	9e-07	6 / 53	MF: cytoskeletal protein binding
34	1e-06	12 / 333	CC: cytoskeleton
35	1e-06	4 / 14	BP: adult heart development
36	1e-06	4 / 14	MF: tropomyosin binding
37	2e-06	4 / 16	MF: microfilament motor activity
38	4e-06	8 / 149	MF: calmodulin binding
39	4e-06	4 / 18	BP: regulation of the force of heart contraction
40	3e-05	31 / 2378	CC: cytosol





Sample–Overexpression

Spot Summary: O

metagenes = 29
genes = 488

<r> metagenes = 0.79

<r> genes = 0.27

beta: r2= 41.74 / log p= -Inf

samples with spot = 70 (25.5 %)

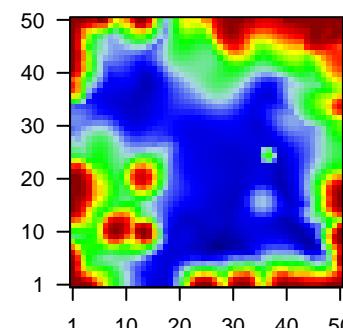
Atypical : 1 (1.4 %)

Classical : 1 (3.1 %)

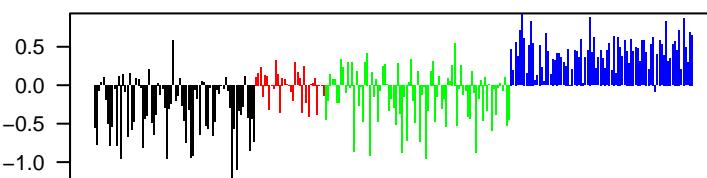
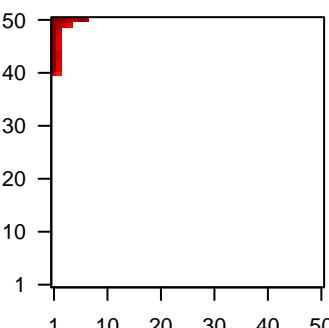
Mesenchymal : 5 (5.9 %)

Basal : 63 (75 %)

Overview Map



Spot

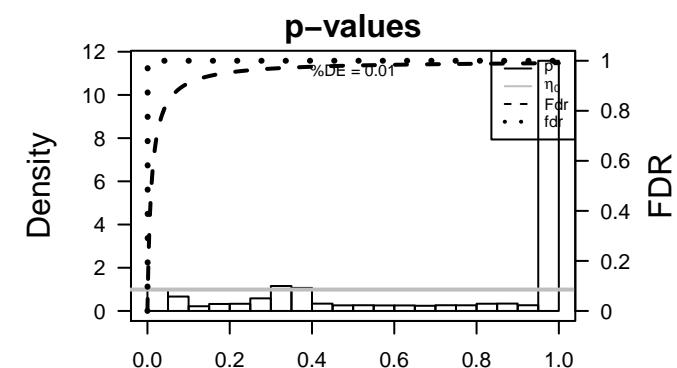


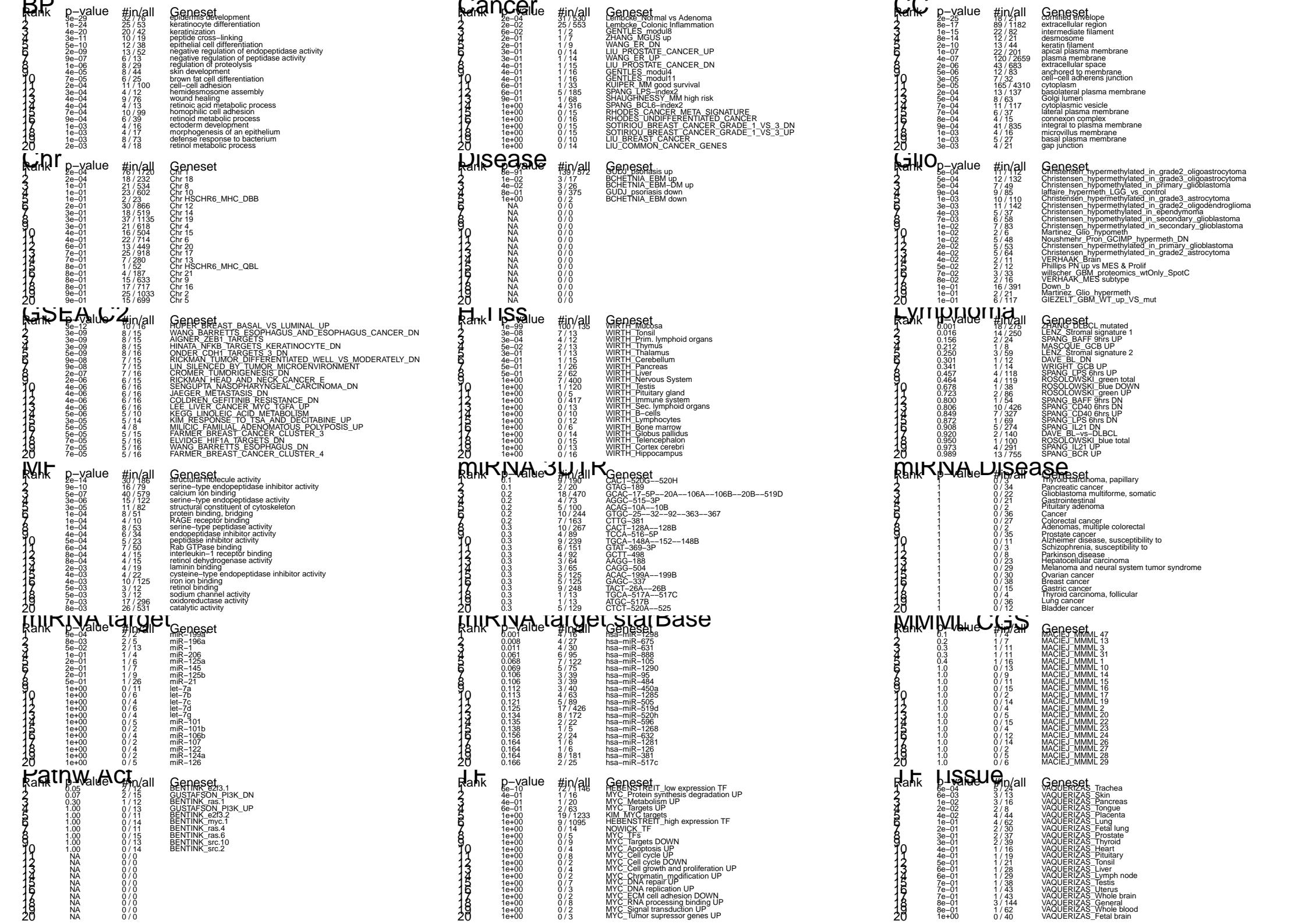
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol
1	2167	5.04	-2.11	0.33	FABP4 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol]	
2	3848	4.75	-1.88	0.67	KRT1 keratin 1 [Source:HGNC Symbol;Acc:6412]	
3	3851	4.24	-3.19	0.57	KRT4 keratin 4 [Source:HGNC Symbol;Acc:6441]	
4	49860	4.24	-3.23	0.72	CRNN cornulin [Source:HGNC Symbol;Acc:1230]	
5	4118	3.95	-3.23	0.61	MAL mal, T-cell differentiation protein [Source:HGNC Symbol;Acc:30193]	
6	4014	3.86	-0.97	0.38	LOR loricrin [Source:HGNC Symbol;Acc:6663]	
7	1673	3.84	-3.54	0.67	DEFB4B defensin, beta 4B [Source:HGNC Symbol;Acc:30193]	
8	6701	3.84	-2.1	0.75	SPRR2B small proline-rich protein 2B [Source:HGNC Symbol;Acc:112]	
9	374918	3.79	-1.25	0.43	IGFL1 IGF-like family member 1 [Source:HGNC Symbol;Acc:24093]	
10	6947	3.77	-1.96	0.46	TCN1 transcobalamin I (vitamin B12 binding protein, R binder family)	
11	414325	3.77	-2.67	0.71	DEFB103B defensin, beta 103B [Source:HGNC Symbol;Acc:31702]	
12	6706	3.74	-3.05	0.71	SPRR2G small proline-rich protein 2G [Source:HGNC Symbol;Acc:112]	
13	57152	3.69	-1.77	0.81	SLURP1 secreted LY6/PLAUR domain containing 1 [Source:HGNC Sy	
14	2877	3.69	-3.11	0.44	GPX2 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Sy	
15	338324	3.66	-2.9	0.68	S100A7AS100 calcium binding protein A7A [Source:HGNC Symbol;Ac	
16	7053	3.52	-3.39	0.81	TGM3 transglutaminase 3 [Source:HGNC Symbol;Acc:11779]	
17	1828	3.51	-1.97	0.78	DSG1 desmoglein 1 [Source:HGNC Symbol;Acc:3048]	
18	55894	3.4	-1.83	0.73	DEFB103B defensin, beta 103B [Source:HGNC Symbol;Acc:31702]	
19	8644	3.37	-2.96	0.4	AKR1C3 aldo-keto reductase family 1, member C3 [Source:HGNC Sy	
20	84651	3.36	-1.82	0.74	SPINK7 serine peptidase inhibitor, Kazal type 7 (putative) [Source:HG	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	100 / 135	H.Tis: WIRTH_Mucosa
2	8e-91	139 / 572	Disea GUDU_psoriasis up
3	3e-29	32 / 76	BP epidermis development
4	2e-25	18 / 21	CC cornified envelope
5	1e-24	25 / 53	BP keratinocyte differentiation
6	4e-20	20 / 42	BP keratinization
7	8e-17	89 / 1182	CC extracellular region
8	1e-15	22 / 82	CC intermediate filament
9	2e-14	30 / 186	MF structural molecule activity
10	8e-14	12 / 21	CC desmosome
11	3e-12	10 / 16	GSE: HUPER_BREAST_BASAL_VS_LUMINAL_UP
12	3e-11	10 / 19	BP peptide cross-linking
13	2e-10	13 / 44	CC keratin filament
14	5e-10	12 / 38	BP epithelial cell differentiation
15	6e-10	72 / 1146	HEBENSTREIT_low expression TF
16	9e-10	16 / 79	MF serine-type endopeptidase inhibitor activity
17	2e-09	13 / 52	BP negative regulation of endopeptidase activity
18	3e-09	8 / 15	GSE: WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCER_DN
19	3e-09	8 / 15	GSE: AIGNER_ZEB1_TARGETS
20	3e-09	8 / 15	GSE: HINATA_NFKB_TARGETS_KERATINOCTYE_DN
21	5e-09	8 / 16	GSE: ONDER_CDH1_TARGETS_3_DN
22	3e-08	7 / 13	H.Tis: WIRTH_Tonsil
23	9e-08	7 / 15	GSE: RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_DN
24	9e-08	7 / 15	GSE: LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
25	1e-07	22 / 201	CC apical plasma membrane
26	2e-07	7 / 16	GSE: CROMER_TUMORIGENESIS_DN
27	4e-07	120 / 2659	CC plasma membrane
28	5e-07	40 / 579	MF calcium ion binding
29	9e-07	6 / 13	BP negative regulation of peptidase activity
30	1e-06	8 / 29	BP regulation of proteolysis
31	2e-06	43 / 683	CC extracellular space
32	2e-06	6 / 15	GSE: RICKMAN_HEAD_AND_NECK_CANCER_E
33	3e-06	15 / 122	MF serine-type endopeptidase activity
34	4e-06	6 / 16	GSE: SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
35	4e-06	6 / 16	GSE: JAEGER_METASTASIS_DN
36	4e-06	6 / 16	GSE: COLDREN_GEFITINIB_RESISTANCE_DN
37	4e-06	6 / 16	GSE: LEE_LIVER_CANCER_MYC_TGFA_UP
38	5e-06	5 / 10	GSE: KEGG_LINOLEIC_ACID_METABOLISM
39	5e-06	12 / 83	CC anchored to membrane
40	3e-05	11 / 82	MF structural constituent of cytoskeleton





Sample–Overexpression

Spot Summary: P

metagenes = 6
genes = 110

<r> metagenes = 0.99

<r> genes = 0.28

beta: r2= 7.64 / log p= -Inf

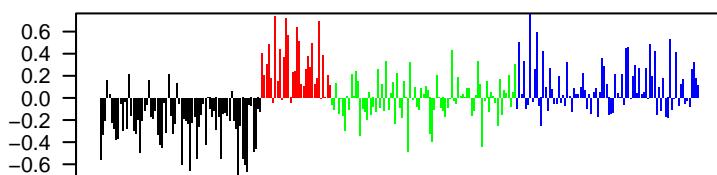
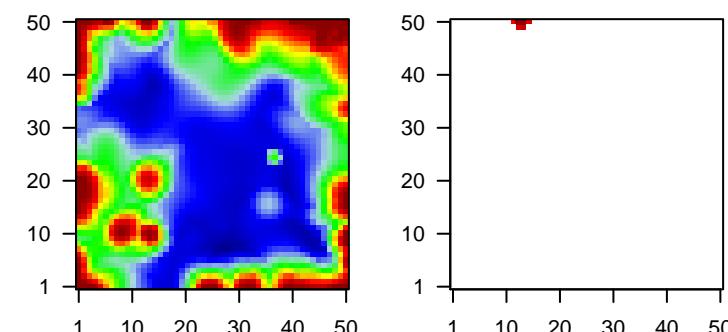
samples with spot = 31 (11.3 %)

Classical : 13 (40.6 %)

Mesenchymal : 4 (4.7 %)

Basal : 14 (16.7 %)

Overview Map



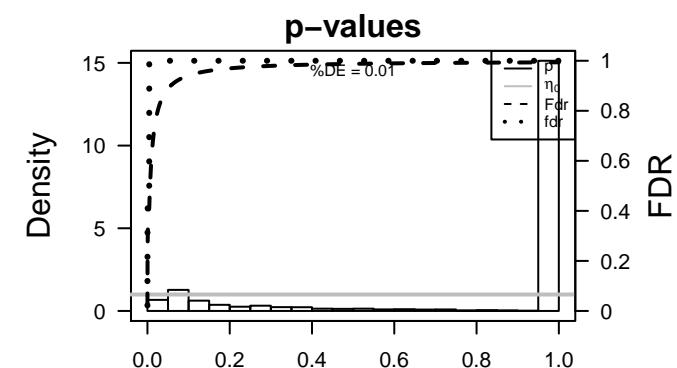
Spot Genelist

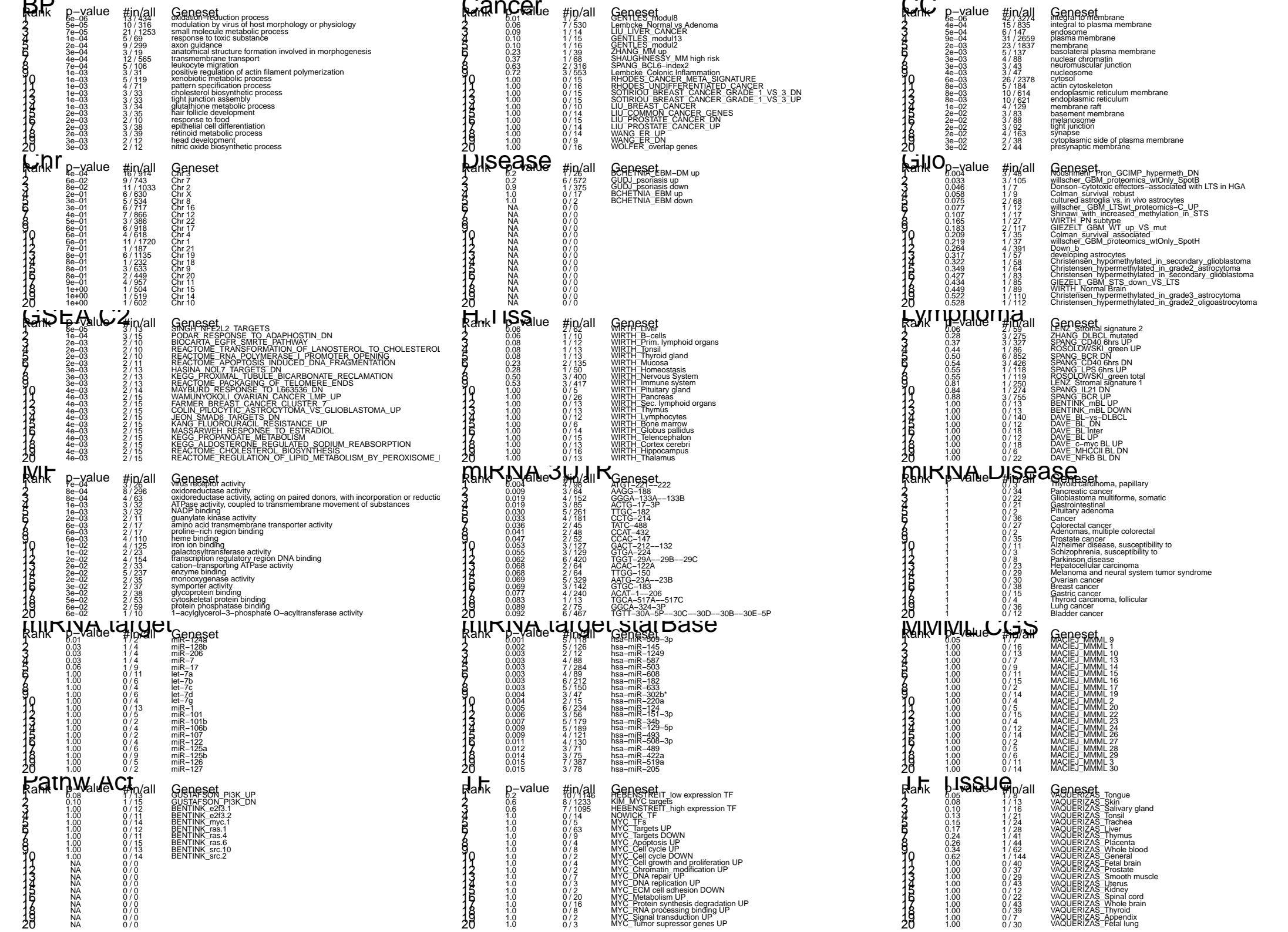
Rank	ID	max e	min e	r	Description	Symbol
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Rank	ID	max e	min e	r	Description	Symbol
1	1109	3.73	-2.74	0.69	AKR1C4 aldo-keto reductase family 1, member C4 [Source:HGNC Symbol;Acc:2918]	
2	57834	2.91	-1.53	0.7	CYP4F1 cytochrome P450, family 4, subfamily F, polypeptide 11 [Source:HGNC Symbol;Acc:2918]	
3	1749	2.89	-1.7	0.51	DLX5 distal-less homeobox 5 [Source:HGNC Symbol;Acc:2918]	
4	1066	2.8	-0.72	0.47	CES1 carboxylesterase 1 [Source:HGNC Symbol;Acc:1863]	
5	1717	2.74	-1.44	0.42	DHCR7 7-dehydrocholesterol reductase [Source:HGNC Symbol;Acc:2918]	
6	140809	2.51	-1.38	0.73	SRXN1 sulfiredoxin 1 [Source:HGNC Symbol;Acc:16132]	
7	7102	2.39	-1.41	0.4	TSPAN7 tetraspanin 7 [Source:HGNC Symbol;Acc:11854]	
8	5217	2.22	-2.55	0.59	PFN2 profilin 2 [Source:HGNC Symbol;Acc:8882]	
9	7062	2.14	-0.7	0.4	TCHH trichohyalin [Source:HGNC Symbol;Acc:11791]	
10	7296	2.07	-0.96	0.54	TXNRD1 thioredoxin reductase 1 [Source:HGNC Symbol;Acc:12437]	
11	493861	2.06	-0.82	0.49	EID3 EP300 interacting inhibitor of differentiation 3 [Source:HGNC Symbol;Acc:2314]	
12	10457	2.06	-2.32	0.42	GPNMB glycoprotein (transmembrane) nmb [Source:HGNC Symbol;Acc:2918]	
13	57007	2.05	-2.01	0.49	ACKR3 atypical chemokine receptor 3 [Source:HGNC Symbol;Acc:2314]	
14	1646	2.04	-1.84	0.67	AKR1C2 aldo-keto reductase family 1, member C2 [Source:HGNC Symbol;Acc:2918]	
15	56666	1.9	-1.37	0.58	PANX2 pannexin 2 [Source:HGNC Symbol;Acc:8600]	
16	406988	1.9	-1.65	0.3	MIR205H MIR205 host gene (non-protein coding) [Source:HGNC Symbol;Acc:2918]	
17	4741	1.88	-0.55	0.38	NEFM neurofilament, medium polypeptide [Source:HGNC Symbol;Acc:2918]	
18	84002	1.88	-1.31	0.7	B3GNT5 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 [Source:HGNC Symbol;Acc:2918]	
19	2539	1.87	-1.09	0.61	G6PD glucose-6-phosphate dehydrogenase [Source:HGNC Symbol;Acc:2918]	
20	100288413	1.84	-0.96	0.49	ERVMER endogenous retrovirus group MER34, member 1 [Source:HGNC Symbol;Acc:2918]	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-06	42 / 3274	CC integral to membrane
2	6e-06	13 / 434	BP oxidation-reduction process
3	5e-05	10 / 316	modulation by virus of host morphology or physiology
4	7e-05	21 / 1253	BP small molecule metabolic process
5	8e-05	3 / 13	GSE/ SINGH_NFE2L2_TARGETS
6	1e-04	5 / 69	BP response to toxic substance
7	1e-04	3 / 15	GSE/ PODAR_RESPONSE_TO_ADAPHOSTIN_DN
8	2e-04	9 / 299	BP axon guidance
9	3e-04	3 / 19	BP anatomical structure formation involved in morphogenesis
10	4e-04	16 / 914	Chr Chr 3
11	4e-04	12 / 565	transmembrane transport
12	4e-04	15 / 835	CC integral to plasma membrane
13	5e-04	6 / 147	CC endosome
14	7e-04	3 / 26	MF virus receptor activity
15	7e-04	5 / 106	BP leukocyte migration
16	8e-04	8 / 296	MF oxidoreductase activity
17	8e-04	4 / 63	MF oxidoreductase activity, acting on paired donors, with incorporation or reduction of oxygen
18	9e-04	31 / 2659	CC plasma membrane
19	1e-03	3 / 31	BP positive regulation of actin filament polymerization
20	1e-03	5 / 118	miRN hsa-miR-509-3p
21	1e-03	5 / 119	BP xenobiotic metabolic process
22	1e-03	3 / 32	MF ATPase activity, coupled to transmembrane movement of substances
23	1e-03	3 / 32	MF NADP binding
24	1e-03	4 / 71	BP pattern specification process
25	1e-03	3 / 33	BP cholesterol biosynthetic process
26	1e-03	3 / 33	BP tight junction assembly
27	1e-03	3 / 34	BP glutathione metabolic process
28	2e-03	5 / 126	miRN hsa-miR-145
29	2e-03	3 / 35	BP hair follicle development
30	2e-03	2 / 10	BP response to food
31	2e-03	2 / 10	GSE/ BIOCARTA_EGFR_SMRT_PATHWAY
32	2e-03	2 / 10	GSE/ REACTOME_TRANSFORMATION_OF_LANOSTEROL_TO_CHOLESTEROL
33	2e-03	2 / 10	GSE/ REACTOME_RNA_POLYMERASE_I_PROMOTER_OPENING
34	2e-03	23 / 1837	CC membrane
35	2e-03	3 / 38	BP epithelial cell differentiation
36	2e-03	3 / 39	BP retinoid metabolic process
37	2e-03	5 / 137	CC basolateral plasma membrane
38	2e-03	2 / 11	MF guanylate kinase activity
39	2e-03	2 / 12	GSE/ REACTOME_APOPTOSIS_INDUCED_DNA_FRAGMENTATION
40	3e-03	2 / 12	BP head development





Sample–Overexpression

Spot Summary: Q

metagenes = 9
genes = 61

<r> metagenes = 0.99

<r> genes = 0.38

beta: r2= 6.15 / log p= -Inf

samples with spot = 34 (12.4 %)

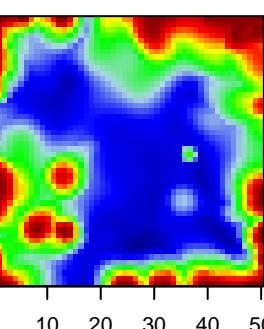
Atypical : 5 (6.8 %)

Classical : 5 (15.6 %)

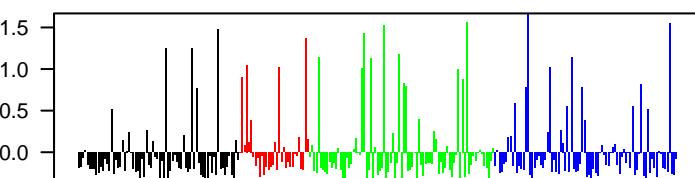
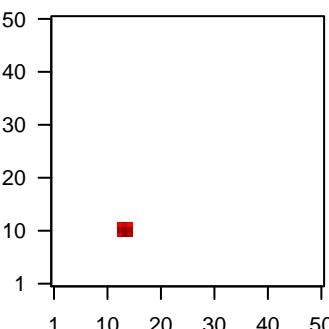
Mesenchymal : 12 (14.1 %)

Basal : 12 (14.3 %)

Overview Map



Spot



Spot Genelist

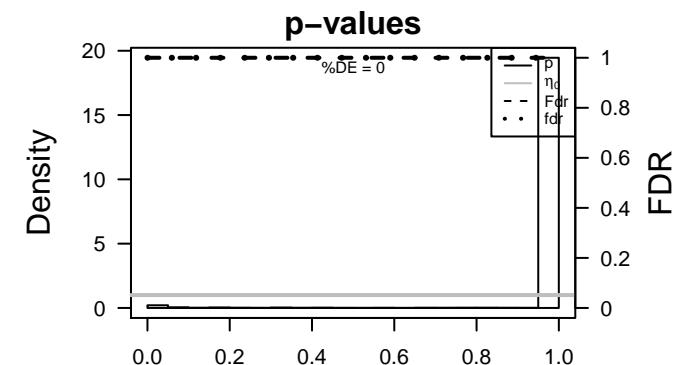
Rank	ID	max e	r	min e	Description
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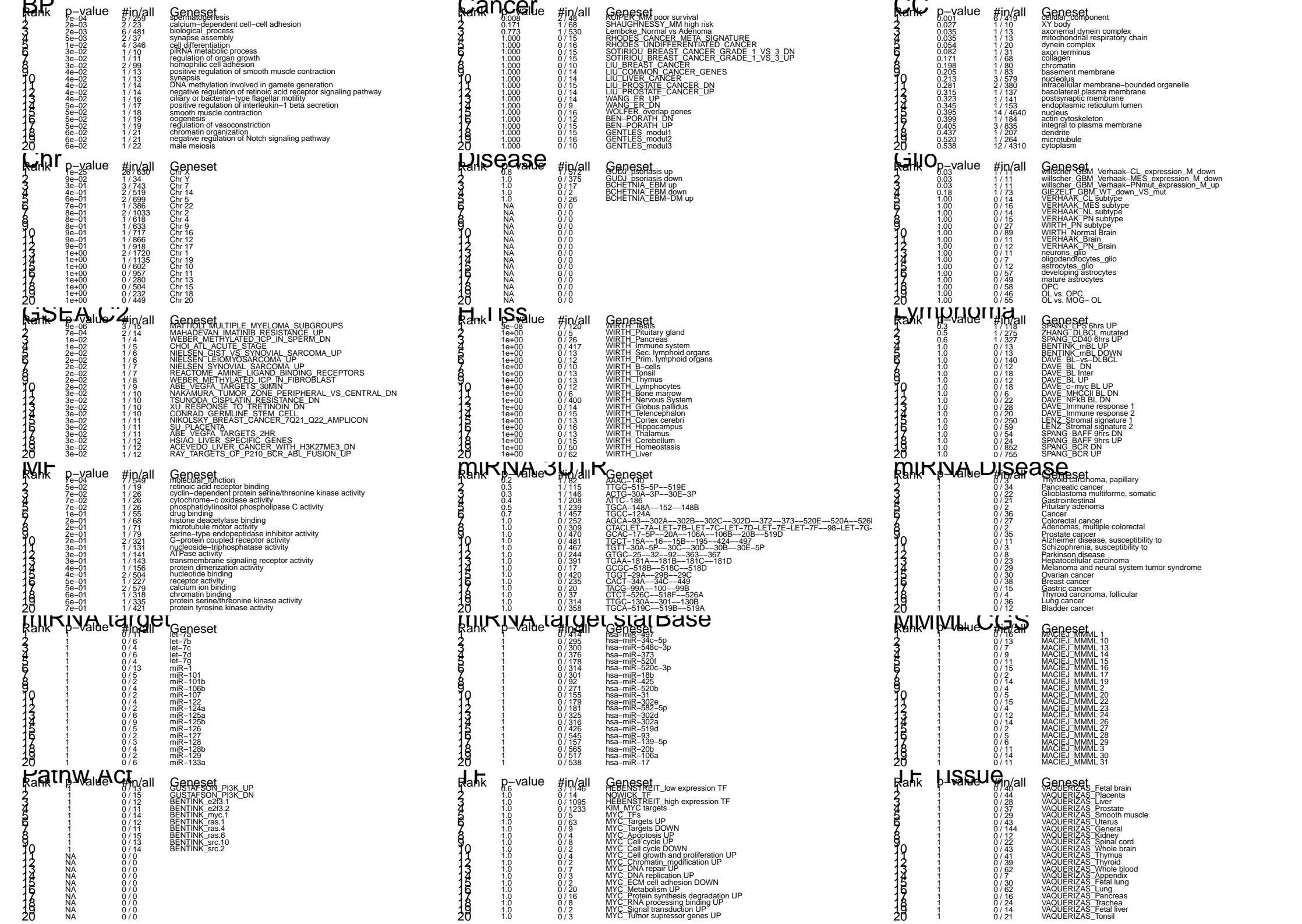
Rank	ID	max e	r	min e	Description
1	645037	4.91	-0.85	0.85	GAGE2CG antigen 2C [Source:HGNC Symbol;Acc:31958]
2	729422	4.91	-0.82	0.86	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:17778]
3	729442	4.7	-0.77	0.85	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:17778]
4	2577	4.65	-0.69	0.85	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:17778]
5	729428	4.58	-0.7	0.86	GAGE12G antigen 12C [Source:HGNC Symbol;Acc:28402]
6	2576	4.56	-0.69	0.85	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:17778]
7	26748	4.55	-0.68	0.85	GAGE12G antigen 12I [Source:HGNC Symbol;Acc:4105]
8	645073	4.39	-0.7	0.85	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:17778]
9	100008586	4.37	-0.71	0.84	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:17778]
10	2579	3.8	-0.56	0.8	GAGE12G antigen 12I [Source:HGNC Symbol;Acc:4105]
11	26749	3.77	-0.6	0.85	GAGE2EG antigen 2E [Source:HGNC Symbol;Acc:31960]
12	729447	3.7	-0.56	0.85	GAGE2AG antigen 2A [Source:HGNC Symbol;Acc:4099]
13	8277	3.56	-0.39	0.29	TKTL1 transketolase-like 1 [Source:HGNC Symbol;Acc:11835]
14	729396	3.52	-0.52	0.85	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:17778]
15	441520	3.26	-0.75	0.6	CT45A2 cancer/testis antigen family 45, member A2 [Source:HGNC S
16	4109	3.25	-0.86	0.6	MAGEA1melanoma antigen family A, 10 [Source:HGNC Symbol;Acc:6
17	653219	3.18	-0.46	0.69	XAGE1BX antigen family, member 1B [Source:HGNC Symbol;Acc:254
18	100101629	3.04	-0.52	0.84	GAGE2EG antigen 2E [Source:HGNC Symbol;Acc:31960]
19	4103	2.69	-0.85	0.47	MAGEA4melanoma antigen family A, 4 [Source:HGNC Symbol;Acc:68
20	4100	2.59	-0.76	0.67	MAGEA1melanoma antigen family A, 1 (directs expression of antigen 1)

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
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Rank	p-value	#in/all	Geneset
1	1e-25	26 / 630	Chr Chr X
2	3e-08	7 / 120	H.Tiss WIRTH_Testis
3	9e-06	3 / 15	GSEA MATTIOLI_MULTIPLE_MYELOMA_SUBGROUPS
4	7e-04	2 / 14	GSEA MAHADEVAN_IMATINIB_RESISTANCE_UP
5	7e-04	7 / 549	MF molecular_function
6	7e-04	5 / 259	BP spermatogenesis
7	1e-03	6 / 419	CC cellular_component
8	2e-03	2 / 23	BP calcium-dependent_cell-cell adhesion
9	2e-03	6 / 481	BP biological_process
10	5e-03	2 / 37	BP synapse assembly
11	8e-03	2 / 48	Canc KUIPER_MM poor survival
12	1e-02	1 / 4	GSEA WEBER_METHYLATED_ICP_IN_SPERM_DN
13	1e-02	1 / 5	GSEA CHOL_ATL_ACUTE_STAGE
14	1e-02	4 / 346	BP cell differentiation
15	2e-02	1 / 6	GSEA NIELSEN_GIST_VS_SYNVOIAL_SARCOMA_UP
16	2e-02	1 / 6	GSEA NIELSEN_LEIOMYOSARCOMA_UP
17	2e-02	1 / 7	GSEA NIELSEN_SYNVOIAL_SARCOMA_UP
18	2e-02	1 / 7	GSEA REACTOME_AMINE_LIGAND_BINDING_RECEPTEORS
19	2e-02	1 / 8	GSEA WEBER_METHYLATED_ICP_IN_FIBROBLAST
20	2e-02	1 / 9	GSEA ABE_VEGFA_TARGETS_30MIN
21	3e-02	1 / 10	BP piRNA metabolic process
22	3e-02	1 / 10	CC XY body
23	3e-02	1 / 10	GSEA NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CENTRAL_DN
24	3e-02	1 / 10	GSEA TSUNODA_CISPLATIN_RESISTANCE_DN
25	3e-02	1 / 10	GSEA XU_RESPONSE_TO_TRETINOIN_DN
26	3e-02	1 / 10	GSEA CONRAD_GERMLINE_STEM_CELL
27	3e-02	1 / 11	BP regulation of organ growth
28	3e-02	1 / 11	Glio willscher_GBM_Verhaak-CL_expression_M_down
29	3e-02	1 / 11	Glio willscher_GBM_Verhaak-MES_expression_M_down
30	3e-02	1 / 11	Glio willscher_GBM_Verhaak-PNmut_expression_M_up
31	3e-02	1 / 11	GSEA NIKOLSKY_BREAST_CANCER_Q21_Q22_AMPLICON
32	3e-02	1 / 11	GSEA SU_PLACENTA
33	3e-02	1 / 11	GSEA ABE_VEGFA_TARGETS_2HR
34	3e-02	2 / 99	BP homophilic cell adhesion
35	3e-02	1 / 12	GSEA HSIAO_LIVER_SPECIFIC_GENES
36	3e-02	1 / 12	GSEA ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_DN
37	3e-02	1 / 12	GSEA RAY_TARGETS_OF_P210_BCR_ABL_FUSION_UP
38	3e-02	1 / 12	GSEA HO_LIVER_CANCER_VASCULAR_INVASION
39	4e-02	1 / 13	CC axonemal dynein complex
40	4e-02	1 / 13	CC mitochondrial respiratory chain





Sample–Overexpression

Spot Summary: R

metagenes = 42
genes = 547

$\langle r \rangle$ metagenes = 0.87

$\langle r \rangle$ genes = 0.24

beta: $r^2 = 4.56$ / log p= -Inf

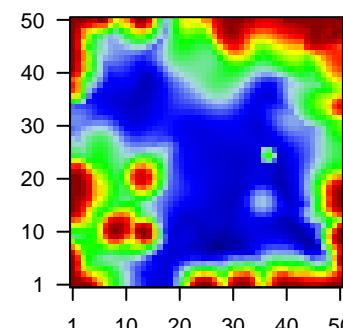
samples with spot = 5 (1.8 %)

Atypical : 1 (1.4 %)

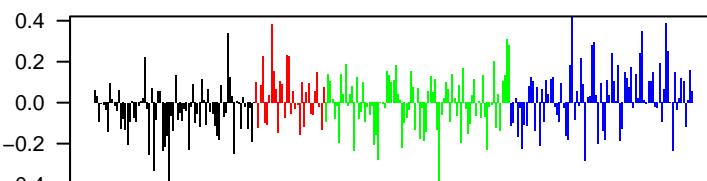
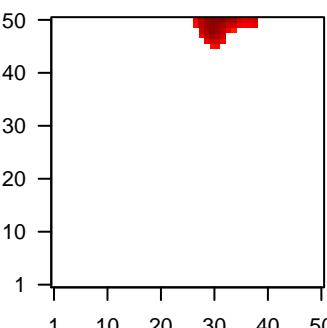
Classical : 1 (3.1 %)

Basal : 3 (3.6 %)

Overview Map



Spot



Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol
1	55915	1.8	-0.75	0.34	LANCL2 LanC lantibiotic synthetase component C-like 2 (bacterial) [S	
2	5321	1.65	-0.85	0.46	PLA2G4 phospholipase A2, group IVA (cytosolic, calcium-dependent)	
3	10950	1.54	-1.34	0.46	BTG3 BTG family, member 3 [Source:HGNC Symbol;Acc:1132]	
4	1207	1.52	-1.35	0.49	CLNS1A chloride channel, nucleotide-sensitive, 1A [Source:HGNC Sy	
5	54802	1.51	-0.79	0.47	tRNA isopentenylyltransferase 1 [Source:HGNC Symbol;Acc:21	TRIT1
6	144363	1.49	-0.94	0.49	LYRM5 LYR motif containing 5 [Source:HGNC Symbol;Acc:27052]	
7	100093630	1.47	-1.34	0.27	SNHG8 small nucleolar RNA host gene 8 (non-protein coding) [Sour	
8	653566	1.46	-1.06	0.54		
9	6622	1.44	-0.92	0.28	SNCA synuclein, alpha (non A4 component of amyloid precursor) [S	
10	84833	1.42	-0.97	0.4	USMG5 up-regulated during skeletal muscle growth 5 homolog (mous	
11	5723	1.39	-0.48	0.53	PSPH phosphoserine phosphatase [Source:HGNC Symbol;Acc:957	
12	5423	1.39	-1.04	0.26	POLB polymerase (DNA directed), beta [Source:HGNC Symbol;Acc	
13	401505	1.36	-0.87	0.59	TOMM5 translocase of outer mitochondrial membrane 5 homolog (yea	
14	51142	1.36	-0.79	0.45	CHCHD2 coiled-coil-helix-coiled-coil-helix domain containing 2 [Sou	
15	139886	1.35	-1.31	0.32	SPIN4 spindlin family, member 4 [Source:HGNC Symbol;Acc:27040]	
16	8560	1.35	-1.12	0.52	DEGS1 delta(4)-desaturase, sphingolipid 1 [Source:HGNC Symbol;A	
17	55848	1.34	-0.94	0.45	PLGRKT plasminogen receptor, C-terminal lysine transmembrane prot	
18	388722	1.27	-0.85	0.53	C1orf53 chromosome 1 open reading frame 53 [Source:HGNC Symb	
19	8803	1.25	-1.1	0.65	SUCLA2 succinate-CoA ligase, ADP-forming, beta subunit [Source:H	
20	51504	1.25	-0.91	0.45	TRMT112RNA methyltransferase 11-2 homolog (S. cerevisiae) [Sour	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-35	136 / 1318	CC mitochondrion
2	8e-24	30 / 83	BP respiratory electron transport chain
3	1e-22	47 / 253	BP translation
4	2e-21	50 / 304	CC mitochondrial inner membrane
5	4e-21	36 / 153	MF structural constituent of ribosome
6	3e-20	35 / 152	BP cellular metabolic process
7	9e-19	102 / 1233	TF KIM_MYC targets
8	6e-18	34 / 167	CC ribosome
9	8e-14	24 / 109	BP SRP-dependent cotranslational protein targeting to membrane
10	8e-14	61 / 649	BP gene expression
11	9e-13	37 / 287	BP viral process
12	3e-12	24 / 128	BP translational initiation
13	4e-12	20 / 87	BP translational termination
14	1e-11	19 / 81	BP viral transcription
15	1e-11	20 / 92	BP translational elongation
16	7e-11	46 / 482	BP cellular protein metabolic process
17	1e-10	19 / 92	BP viral life cycle
18	1e-10	21 / 115	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
19	3e-10	30 / 242	BP RNA metabolic process
20	7e-10	28 / 219	BP mRNA metabolic process
21	3e-09	9 / 19	CC mitochondrial proton-transporting ATP synthase complex
22	6e-09	11 / 34	MF NADH dehydrogenase (ubiquinone) activity
23	6e-09	13 / 51	CC cytosolic large ribosomal subunit
24	8e-09	11 / 35	BP mitochondrial electron transport, NADH to ubiquinone
25	1e-08	11 / 36	CC mitochondrial respiratory chain complex I
26	2e-08	9 / 23	BP mitochondrial ribosome
27	1e-07	76 / 1253	BP small molecule metabolic process
28	2e-07	7 / 15	BP ATP synthesis coupled proton transport
29	2e-07	6 / 10	CC large ribosomal subunit
30	5e-07	6 / 11	Cancer GENTLES_modul5
31	6e-07	12 / 62	Glio Stuehler_Proteins_up_in_STS
32	9e-07	60 / 957	Chr Chr 11
33	9e-07	43 / 595	MF RNA binding
34	1e-06	8 / 26	MF cytochrome-c oxidase activity
35	2e-06	6 / 13	GSE/ REACTOME_FORMATION_OF_ATP_BY_CHEIOMOSMOTIC_COUPLING
36	3e-06	6 / 14	BP mitochondrial ATP synthesis coupled proton transport
37	3e-06	22 / 220	CC mitochondrial matrix
38	6e-06	42 / 618	Chr Chr 4
39	7e-06	6 / 16	Cancer GENTLES_modul10
40	7e-06	6 / 16	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_DN

