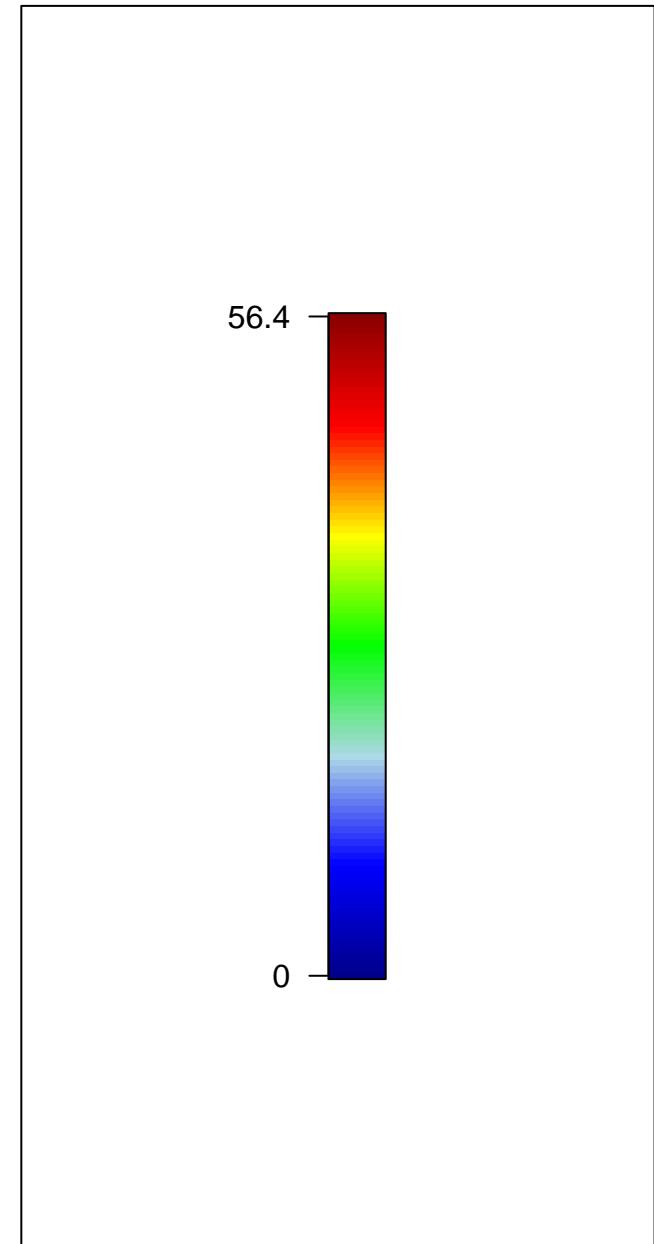
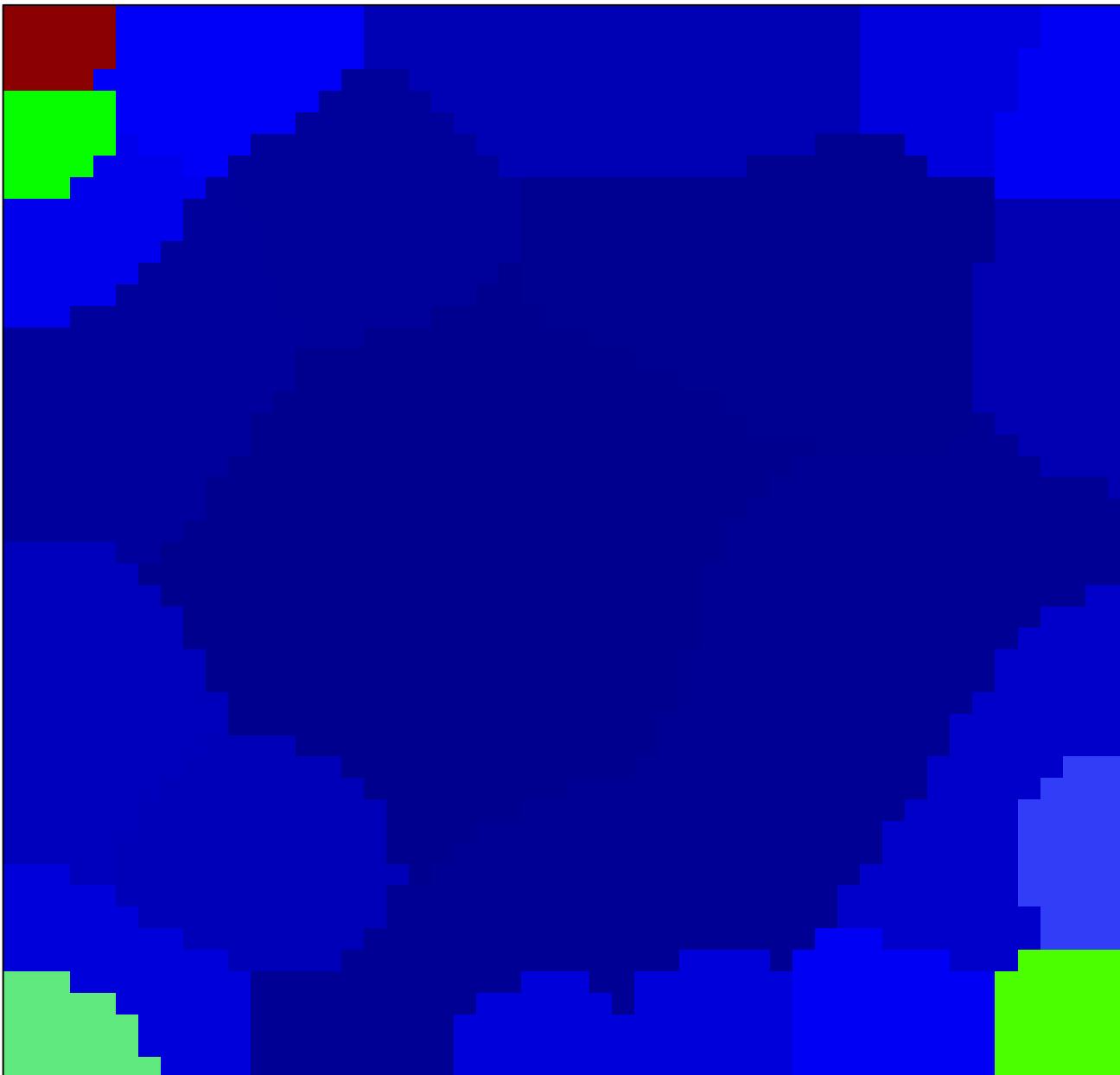
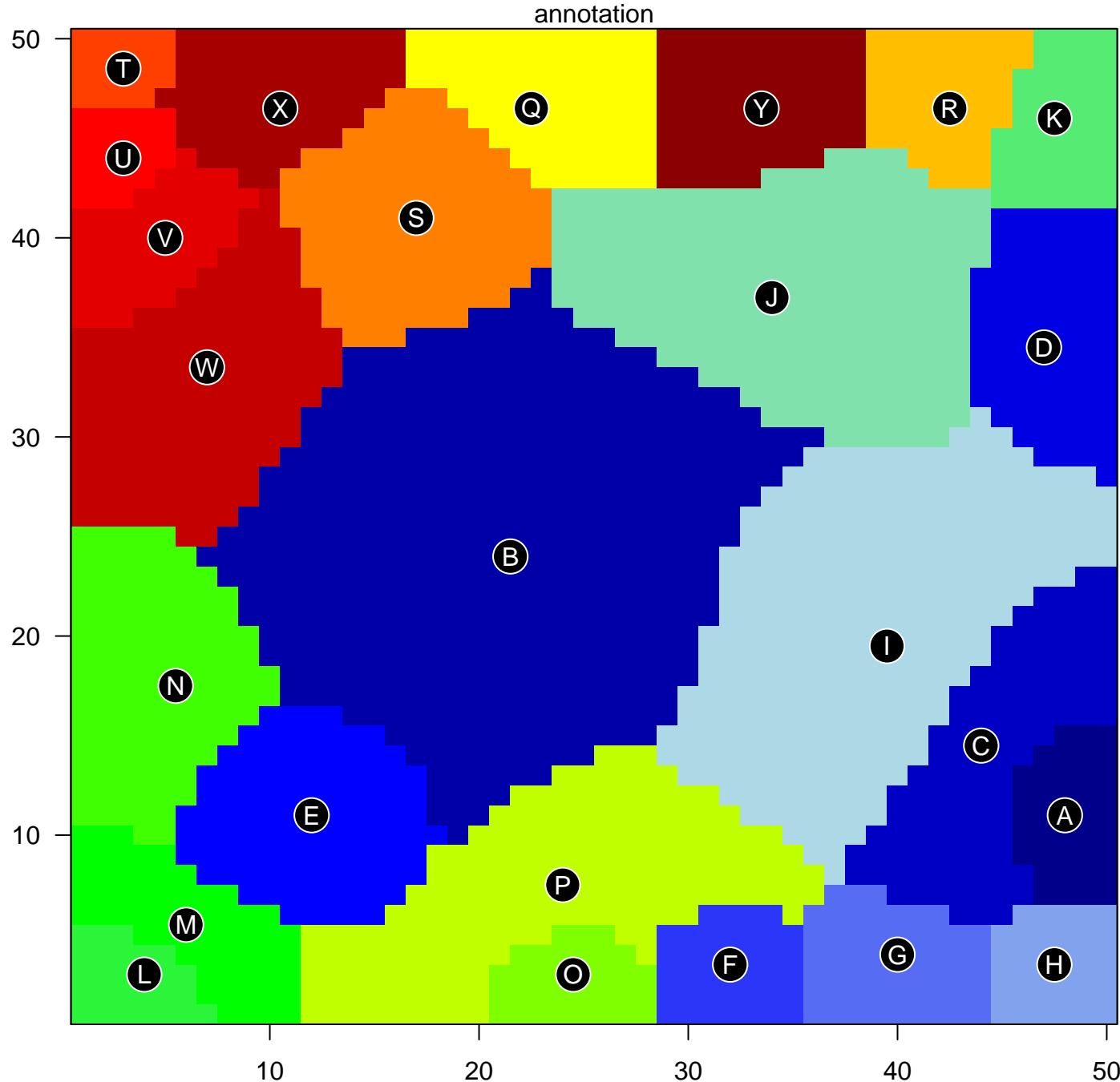


K-Means Cluster

beta-scores



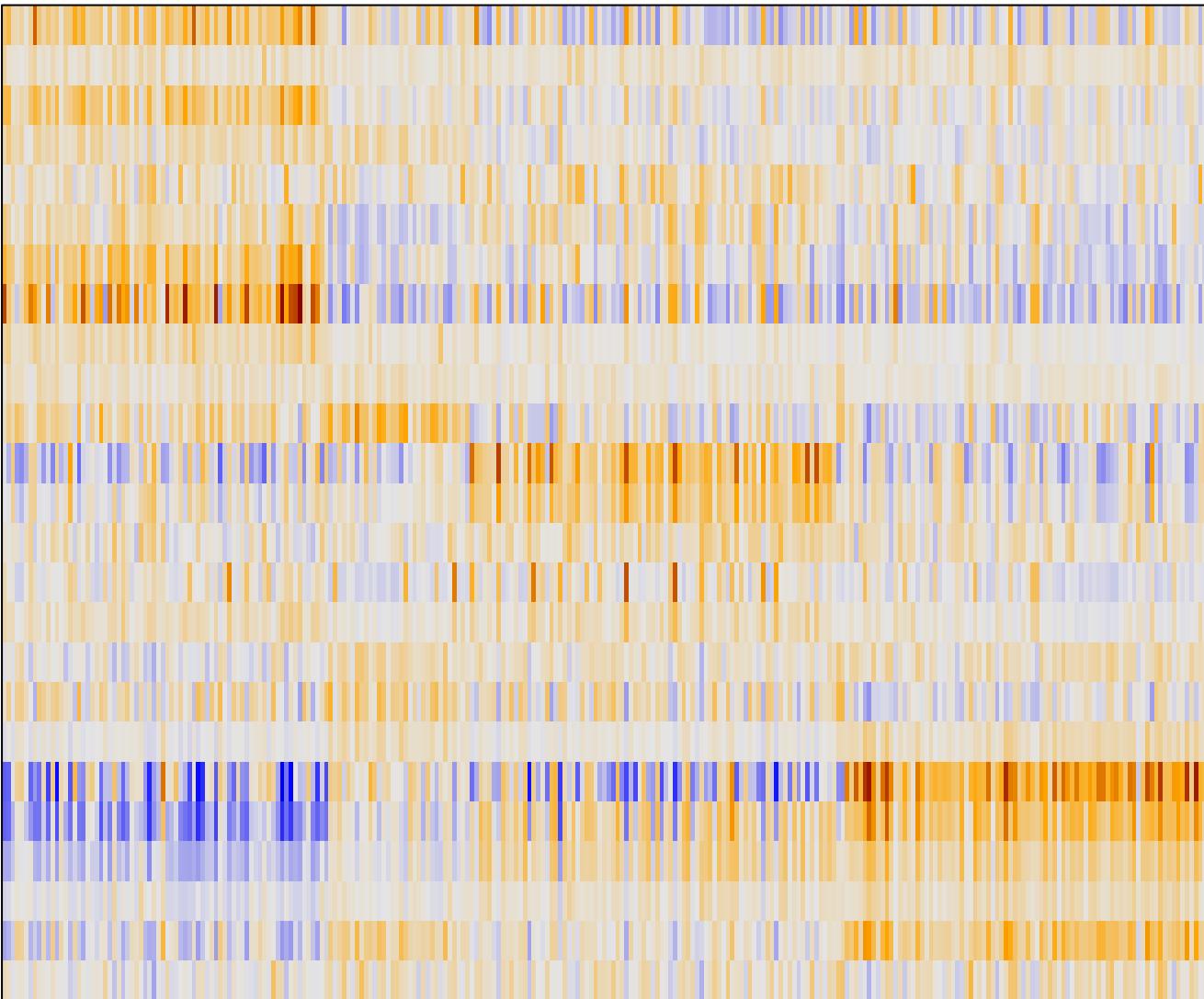
K-Means Cluster



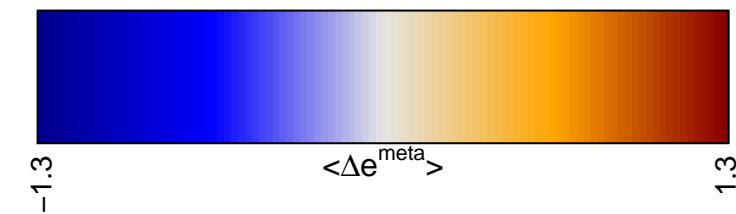
A	GUDJ_psoriasis down RICKMAN_HEAD_AND_NECK_CANCER_D CROMER_TUMORIGENESIS_DN
B	olfactory receptor activity G-protein coupled receptor activity G-protein coupled receptor signaling pathway
C	Chr 3 WIRTH_Immune system transcription, DNA-templated
D	nucleus nucleic acid binding RNA binding
E	Chr 19 Chr X anterior/posterior pattern specification
F	type I interferon signaling pathway defense response to virus SPANG_IL21 DN
G	Chr 19 hydrolase activity, hydrolyzing O-glycosyl compounds DNA binding
H	Lembcke_Colonic Inflammation WIRTH_Immune system immune response
I	willscher_GBM_Verhaak-PNmut_expression_G_down viral transcription translational elongation
J	regulation of transcription, DNA-dependent DNA binding nucleic acid binding
K	Chr 3 DNA replication mitotic cell cycle
L	LENZ_Stromal signature 1 extracellular matrix extracellular matrix organization
M	extracellular matrix organization LENZ_Stromal signature 1 cell adhesion
N	mitochondrion Chr 16 Lembcke_Normal vs Adenoma
O	WIRTH_Muscle muscle filament sliding muscle contraction
P	integral to membrane



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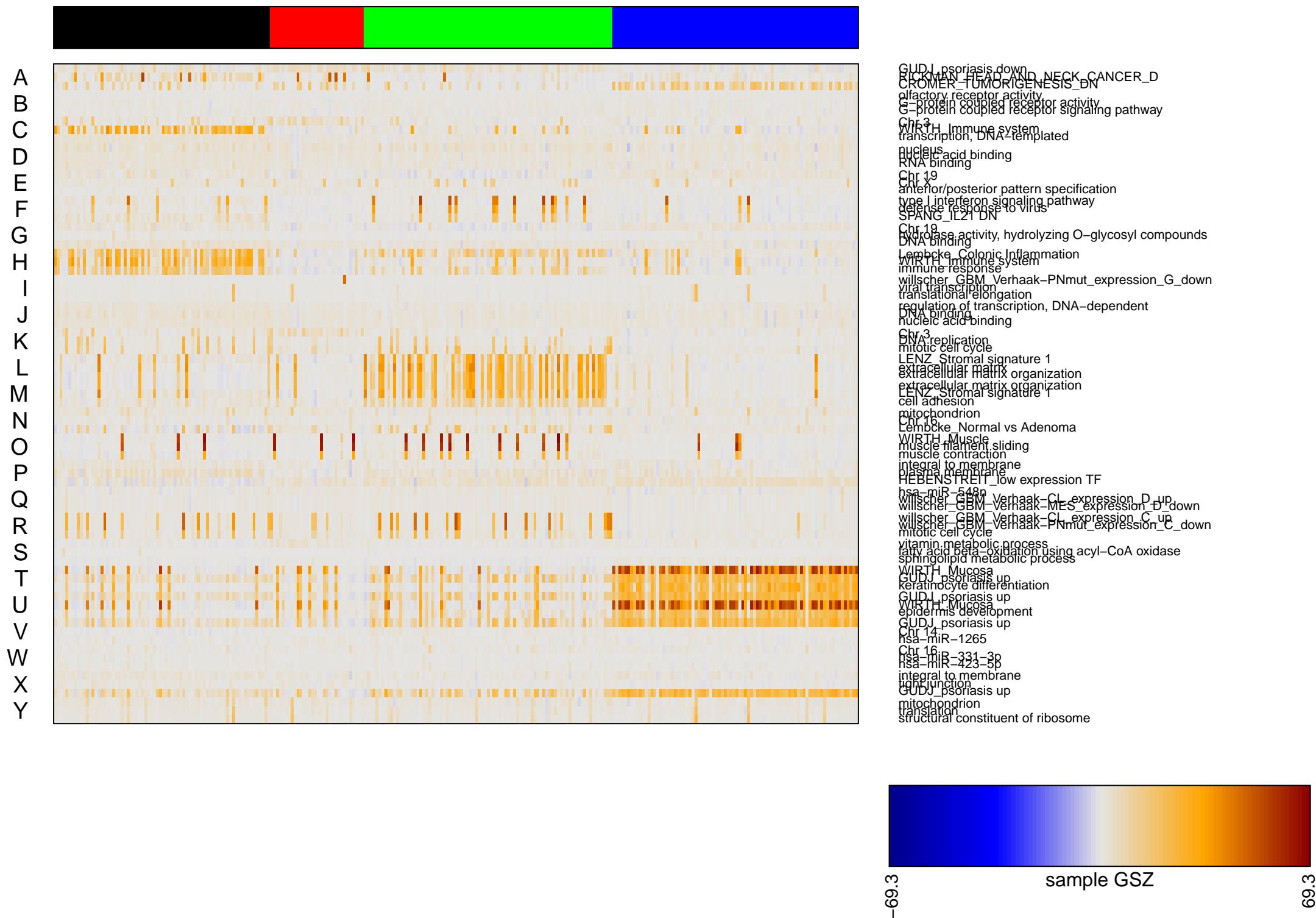


GUDJ_psoriasis down
SICKMAN_HEAD AND NECK_CANCER_D
CROMER_TUMORIGENESIS_DN
olfactory receptor activity
G-protein coupled receptor activity
G-protein coupled receptor signalling pathway
Chr 3H_Immune system
transcription, DNA-templated
nucleus
nucleic acid binding
RNA binding
Chr 19
anterior/posterior pattern specification
type I interferon signaling pathway
defense response to virus
SPANG_IL21 DN
Chr 19
hydrolase activity, hydrolyzing O-glycosyl compounds
DNA binding
Lembcke_Colonic Inflammation
WIRTH_Immune system
immune response
willscher_GBM_Verhaak-PNmut_expression_G_down
translational elongation
regulation of transcription, DNA-dependent
nucleic acid binding
Chr 3replication
mitotic cell cycle
LENZ_Stromal signature 1
extracellular matrix organization
extracellular matrix organization
LENZ_Stromal signature 1
cell adhesion
mitochondrion
Chr 16
Lembcke_Normal vs Adenoma
WIRTH_Muscle
muscle filament sliding
muscle contraction
integral to membrane
plasma membrane
HEBENSTREIT_low expression TF
hsa-miR-548n
Willscher_GBM_Verhaak-CI_expression_D_up
Willscher_GBM_Verhaak-MES_expression_D_down
Willscher_GBM_Verhaak-PNmut_expression_C_up
mitotic cell cycle
vitamin metabolic process
fatty acid beta-oxidation using acyl-CoA oxidase
sphingolipid metabolic process
WIRTH_Mucosa
GUDJ_psoriasis up
keratinocyte differentiation
GUDJ_psoriasis up
epidermis development
GUDJ_psoriasis up
Chr 14
hsa-miR-1265
Chr 16
hsa-miR-331-3p
hsa-miR-423-3p
integral to membrane
GUDJ_psoriasis up
mitochondrion
structural constituent of ribosome



-1.3

< Δe^{meta} >



K-Means Cluster

Spot Summary: A

metagenes = 40
genes = 394

<r> metagenes = 0.88

<r> genes = 0.24

beta: r2= 12.14 / log p= -Inf

samples with spot = 42 (15.3 %)

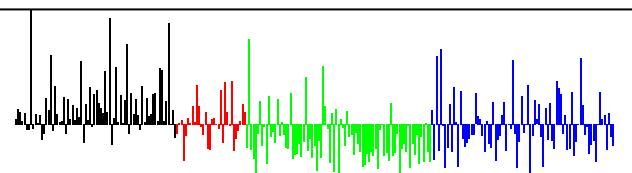
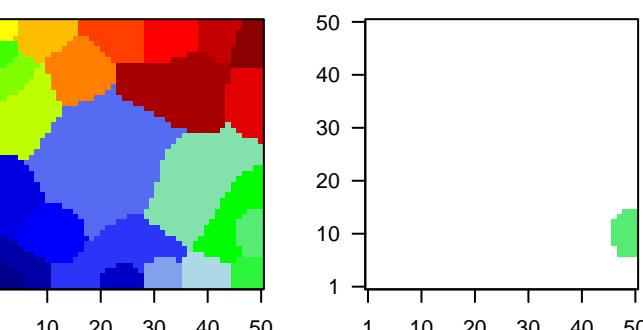
Atypical : 19 (25.7 %)

Classical : 4 (12.5 %)

Mesenchymal : 5 (5.9 %)

Basal : 14 (16.7 %)

Overview Map



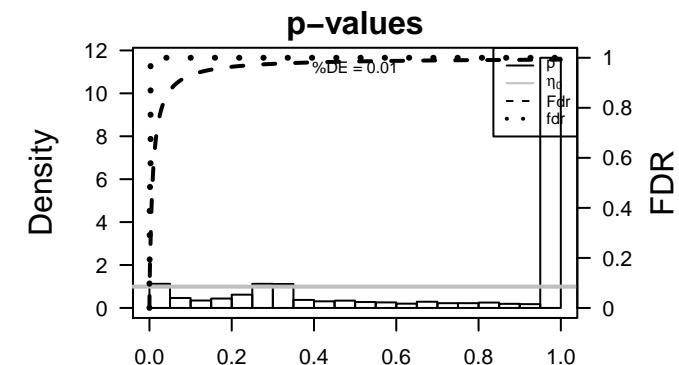
Spot Genelist

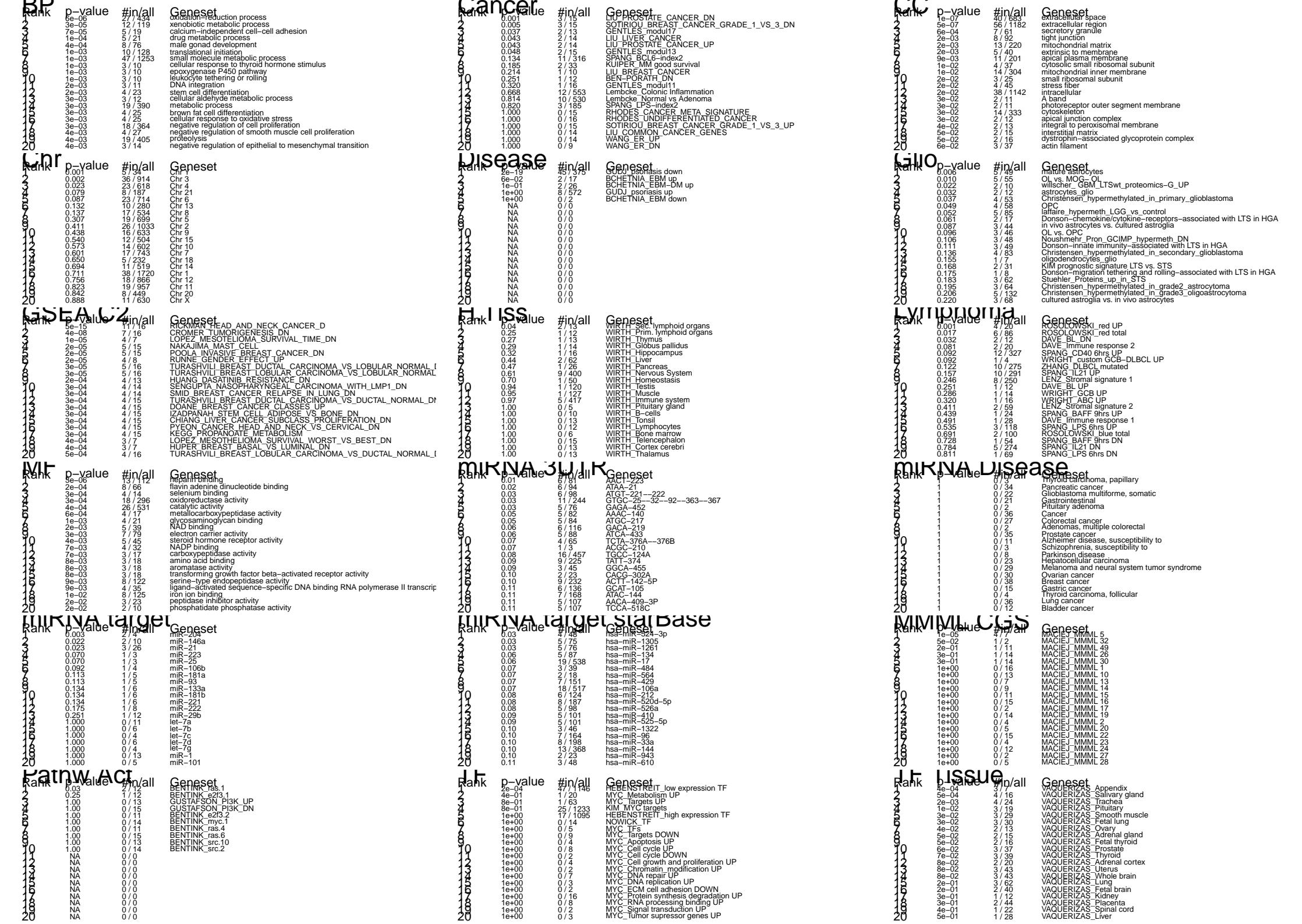
Rank	ID	max e	min e	r	Description	Symbol
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Rank	ID	max e	min e	r	Description	Symbol
1	92747	5.31	-1.24	0.64	BPIFB1	BPI fold containing family B, member 1 [Source:HGNC Symbol;Acc:8993]
2	11272	4.99	-1.08	0.67	PRR4	proline rich 4 (lacrimal) [Source:HGNC 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:30-124220]
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-
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	347	3.19	-1.49	0.74	APOD	apolipoprotein D [Source:HGNC Symbol;Acc:612]
13	80341	3.15	-0.53	0.63	BPIFB2	BPI fold containing family B, member 2 [Source:HGNC Symbol;Acc:8993]
14	352999	3.14	-0.47	0.51	C6orf58	chromosome 6 open reading frame 58 [Source:HGNC Symbol;Acc:8993]
15	7018	3.1	-1.18	0.68	TF	transferrin [Source:HGNC Symbol;Acc:11740]
16	8842	3.09	-1	0.64	PROM1	prominin 1 [Source:HGNC Symbol;Acc:9454]
17	389816	3.08	-1.05	0.77	LRRC26	leucine rich repeat containing 26 [Source:HGNC Symbol;Acc:8993]
18	5284	3.04	-0.77	0.69	PIGR	polymeric immunoglobulin receptor [Source:HGNC Symbol;Acc:8993]
19	2568	3.03	-1.68	0.74	GABRP	gamma-aminobutyric acid (GABA) A receptor, pi [Source:HGNC Symbol;Acc:8993]
20	124	3.01	-0.85	0.47	ADH1A	alcohol dehydrogenase 1A (class I), alpha polypeptide [Source:HGNC Symbol;Acc:8993]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-19	45 / 375	Disease_GUDJ_psoriasis down
2	5e-15	11 / 16	GSE/ RICKMAN_HEAD_AND_NECK_CANCER_D
3	4e-08	7 / 16	GSE/ CROMER_TUMORIGENESIS_DN
4	1e-07	40 / 683	CC_extracellular space
5	5e-07	56 / 1182	CC_extracellular region
6	3e-06	13 / 112	MF_heparin binding
7	6e-06	27 / 434	BP_oxidation-reduction process
8	1e-05	4 / 7	MM_MACIEJ_MMML_5
9	1e-05	4 / 7	GSE/ LOPEZ_MESOTELIOMA_SURVIVAL_TIME_DN
10	2e-05	5 / 15	GSE/ NAKAJIMA_MAST_CELL
11	2e-05	5 / 15	GSE/ POOLA_INVASIVE_BREAST_CANCER_DN
12	2e-05	4 / 8	GSE/ RUNNE_GENDER_EFFECT_UP
13	3e-05	5 / 16	GSE/ TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_NORMAL
14	3e-05	5 / 16	GSE/ TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL
15	3e-05	12 / 119	BP_xenobiotic metabolic process
16	7e-05	5 / 19	BP calcium-independent cell-cell adhesion
17	1e-04	5 / 21	BP drug metabolic process
18	2e-04	8 / 66	MF flavin adenine dinucleotide binding
19	2e-04	47 / 1146	TF_HEBENSTREIT_low expression TF
20	2e-04	4 / 13	GSE/ HUANG_DASATINIB_RESISTANCE_DN
21	3e-04	4 / 14	MF selenium binding
22	3e-04	4 / 14	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_DN
23	3e-04	4 / 14	GSE/ SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN
24	3e-04	18 / 296	MF oxidoreductase activity
25	3e-04	4 / 15	GSE/ TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NORMAL
26	3e-04	4 / 15	GSE/ DOANE_BREAST_CANCER_CLASSES_UP
27	3e-04	4 / 15	GSE/ IZADPAZHAN_STEM_CELL_ADIPOSE_VS_BONE_DN
28	3e-04	4 / 15	GSE/ CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN
29	3e-04	4 / 15	GSE/ PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
30	3e-04	4 / 15	GSE/ KEGG_PROPANOATE_METABOLISM
31	4e-04	26 / 531	MF_catalytic activity
32	4e-04	3 / 7	GSE/ LOPEZ_MESOTELIOMA_SURVIVAL_WORST_VS_BEST_DN
33	4e-04	3 / 7	GSE/ HUPER_BREAST_BASAL_VS_LUMINAL_DN
34	4e-04	3 / 7	TF_Ti_VAQUERIZAS_Appendix
35	4e-04	8 / 76	BP_male gonad development
36	5e-04	4 / 16	GSE/ TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL
37	5e-04	4 / 16	GSE/ ROY_WOUND_BLOOD_VESSEL_DN
38	5e-04	4 / 16	GSE/ WANG_BARRETTES_ESOPHAGUS_DN
39	5e-04	4 / 16	TF_Ti_VAQUERIZAS_Salivary gland
40	6e-04	4 / 17	MF_metallocarboxypeptidase activity





K-Means Cluster

Spot Summary: B

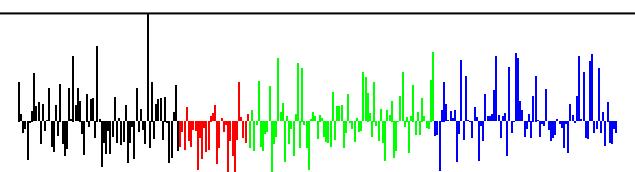
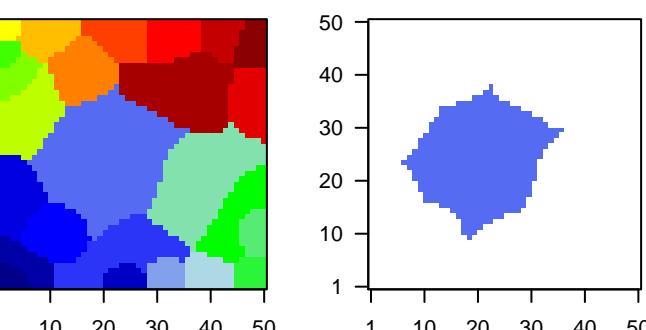
metagenes = 468
genes = 3085

$\langle r \rangle$ metagenes = 0.4

beta: $r^2 = 0.29$ / log p= -Inf

samples with spot = 0 (0 %)

Overview Map

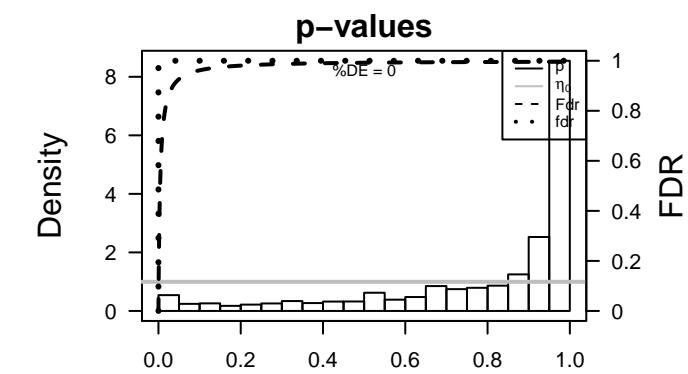


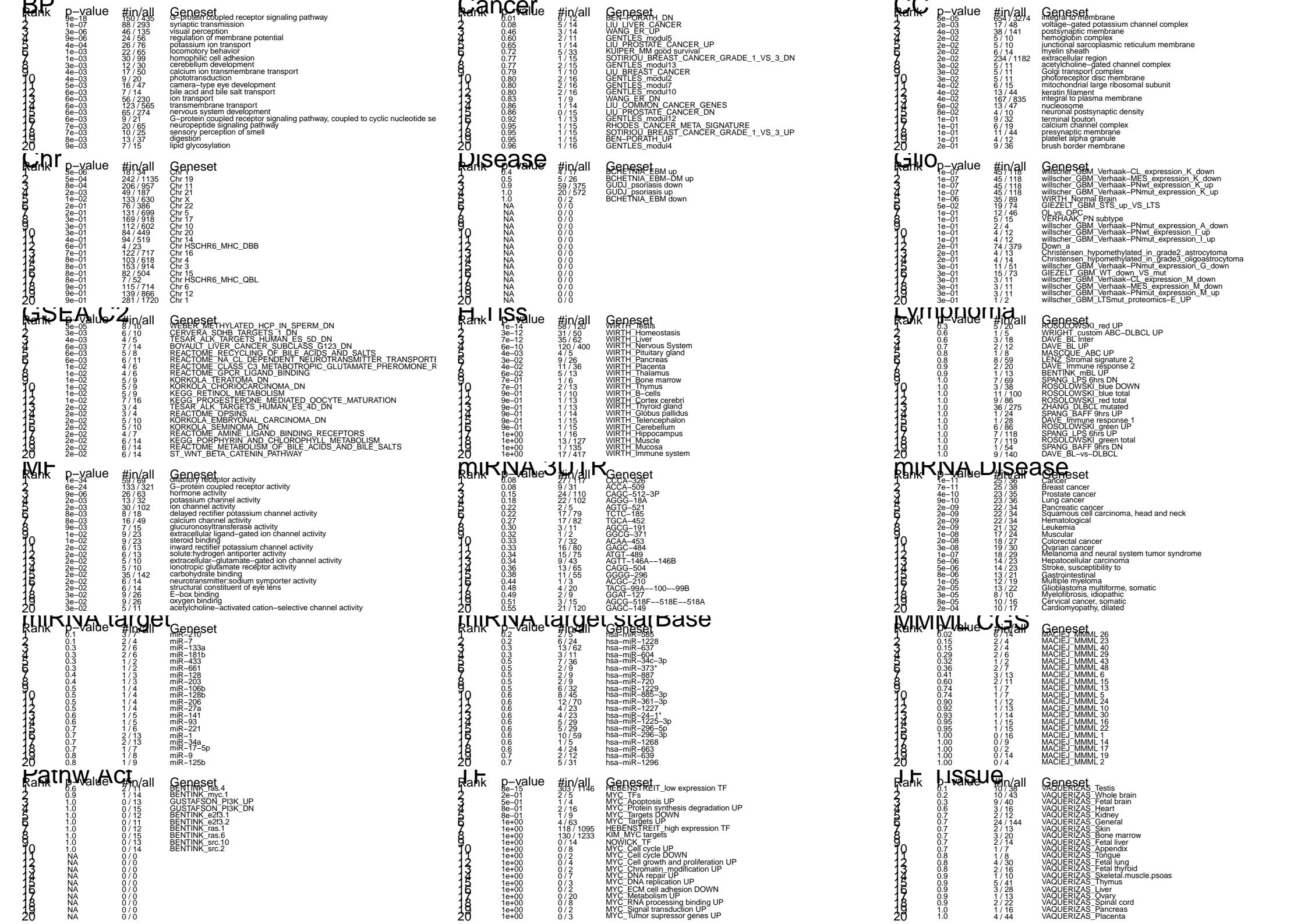
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol
1	3047	1.69	-0.36	0.26	HBG1	hemoglobin, gamma A [Source:HGNC Symbol;Acc:4831]
2	3048	1.65	-0.34	0.26	HBG2	hemoglobin, gamma G [Source:HGNC Symbol;Acc:4832]
3	140690	1.62	-0.28	0.24	CTCFL	CCCTC-binding factor (zinc finger protein)-like [Source:HGNC Symbol;Acc:8831]
4	5179	1.58	-0.43	0.23	PENK	proenkephalin [Source:HGNC Symbol;Acc:8831]
5	55857	1.44	-0.75	0.21		
6	6086	1.37	-0.58	0.44	RNY4	RNA, Ro-associated Y4 [Source:HGNC Symbol;Acc:10244]
7	337959	1.32	-0.23	0.15	KRTAP13-2	keratin associated protein 13-2 [Source:HGNC Symbol;Acc:1]
8	100169760	1.3	-0.65	0.21	RNA5S9	RNA, 5S ribosomal 9 [Source:HGNC Symbol;Acc:34370]
9	84873	1.3	-0.23	0.16	GPR128	G protein-coupled receptor 128 [Source:HGNC Symbol;Acc:1]
10	4496	1.27	-0.44	0.27	MT1H	metallothionein 1H [Source:HGNC Symbol;Acc:7400]
11	10430	1.22	-0.82	0.35	TMEM147	transmembrane protein 147 [Source:HGNC Symbol;Acc:3041]
12	644928	1.21	-0.95	0.36		
13	84299	1.21	-0.52	0.35	MIEN1	migration and invasion enhancer 1 [Source:HGNC Symbol;Acc:1]
14	400156	1.2	-0.87	0.28		
15	644	1.2	-0.96	0.3	BLVRA	biliverdin reductase A [Source:HGNC Symbol;Acc:1062]
16	5438	1.19	-0.78	0.54	POLR2I	polymerase (RNA) II (DNA directed) polypeptide I, 14.5kDa [S]
17	26871	1.18	-0.77	0.32	RNU1-1	RNA, U1 small nuclear 1 [Source:HGNC Symbol;Acc:10120]
18	7923	1.18	-0.96	0.45	HSD17B8	hydroxysteroid (17-beta) dehydrogenase 8 [Source:HGNC Symbol;Acc:1]
19	2172	1.16	-0.47	0.27	FABP6	fatty acid binding protein 6, ileal [Source:HGNC Symbol;Acc:1]
20	4713	1.15	-0.75	0.71	NDUFB7	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-34	59 / 69	MF olfactory receptor activity
2	6e-24	133 / 321	MF G-protein coupled receptor activity
3	9e-18	150 / 435	BP G-protein coupled receptor signaling pathway
4	8e-15	303 / 1146	TF HEBENSTREIT_low expression TF
5	1e-14	58 / 120	H.Tiss: WIRTH_Testis
6	3e-12	31 / 50	H.Tiss: WIRTH_Homeostasis
7	7e-12	35 / 62	H.Tiss: WIRTH_Liver
8	1e-11	25 / 36	miRN Cancer
9	7e-11	25 / 38	miRN Breast cancer
10	4e-10	23 / 35	miRN Prostate cancer
11	6e-10	120 / 400	H.Tiss: WIRTH_Nervous System
12	9e-10	23 / 36	miRN Lung cancer
13	2e-09	22 / 34	miRN Pancreatic cancer
14	2e-09	22 / 34	miRN Squamous cell carcinoma, head and neck
15	2e-09	22 / 34	miRN Hematological
16	2e-09	21 / 32	miRN Leukemia
17	1e-08	17 / 24	miRN Muscular
18	2e-08	18 / 27	miRN Colorectal cancer
19	3e-08	19 / 30	miRN Ovarian cancer
20	1e-07	45 / 118	Glio willscher_GBM_Verhaak-CL_expression_K_down
21	1e-07	45 / 118	Glio willscher_GBM_Verhaak-MES_expression_K_down
22	1e-07	45 / 118	Glio willscher_GBM_Verhaak-PNwt_expression_K_up
23	1e-07	45 / 118	Glio willscher_GBM_Verhaak-PNmwt_expression_K_up
24	1e-07	88 / 293	BP synaptic transmission
25	1e-07	18 / 29	miRN Melanoma and neural system tumor syndrome
26	1e-06	35 / 89	Glio WIRTH_Normal Brain
27	3e-06	46 / 135	BP visual perception
28	3e-06	18 / 34	Chr Chr Y
29	5e-06	14 / 23	miRN Hepatocellular carcinoma
30	5e-06	14 / 23	miRN Stroke, susceptibility to
31	8e-06	13 / 21	miRN Gastrointestinal
32	9e-06	26 / 63	MF hormone activity
33	9e-06	24 / 56	BP regulation of membrane potential
34	1e-05	12 / 19	miRN Multiple myeloma
35	2e-05	13 / 22	miRN Glioblastoma multiforme, somatic
36	3e-05	8 / 10	GSE/ WEBER METHYLATED_HCP_IN_SPERM_DN
37	3e-05	8 / 10	miRN Myelofibrosis, idiopathic
38	6e-05	654 / 3274	CC integral to membrane
39	8e-05	10 / 16	miRN Cervical cancer, somatic
40	2e-04	10 / 17	miRN Cardiomyopathy, dilated





K-Means Cluster

Spot Summary: C

metagenes = 108
genes = 715

$\langle r \rangle$ metagenes = 0.85

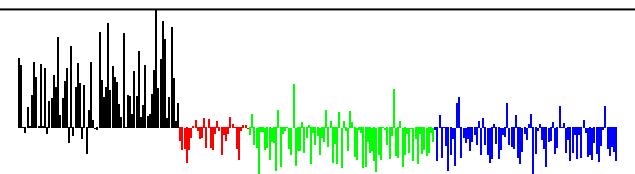
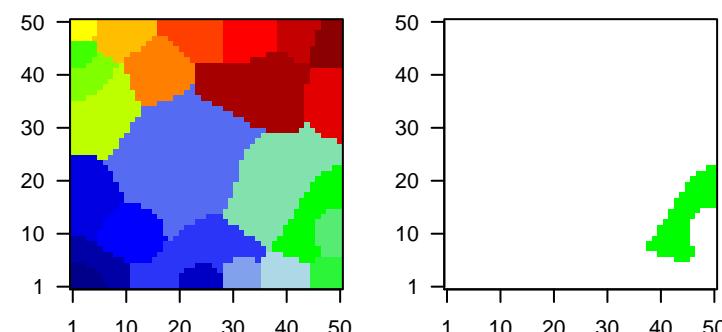
$\langle r \rangle$ genes = 0.24

beta: $r^2 = 5.18$ / log p= -Inf

samples with spot = 23 (8.4 %)

Atypical : 23 (31.1 %)

Overview Map



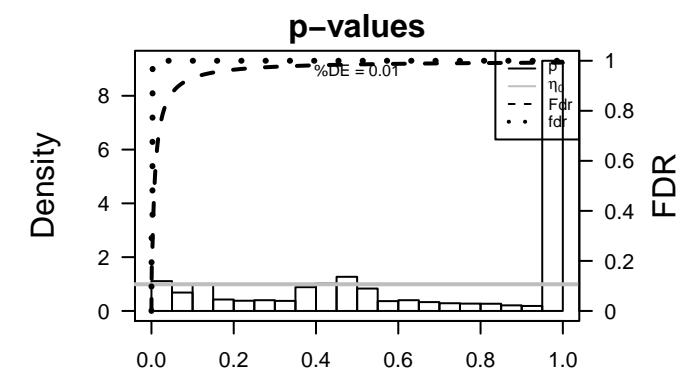
Spot Genelist

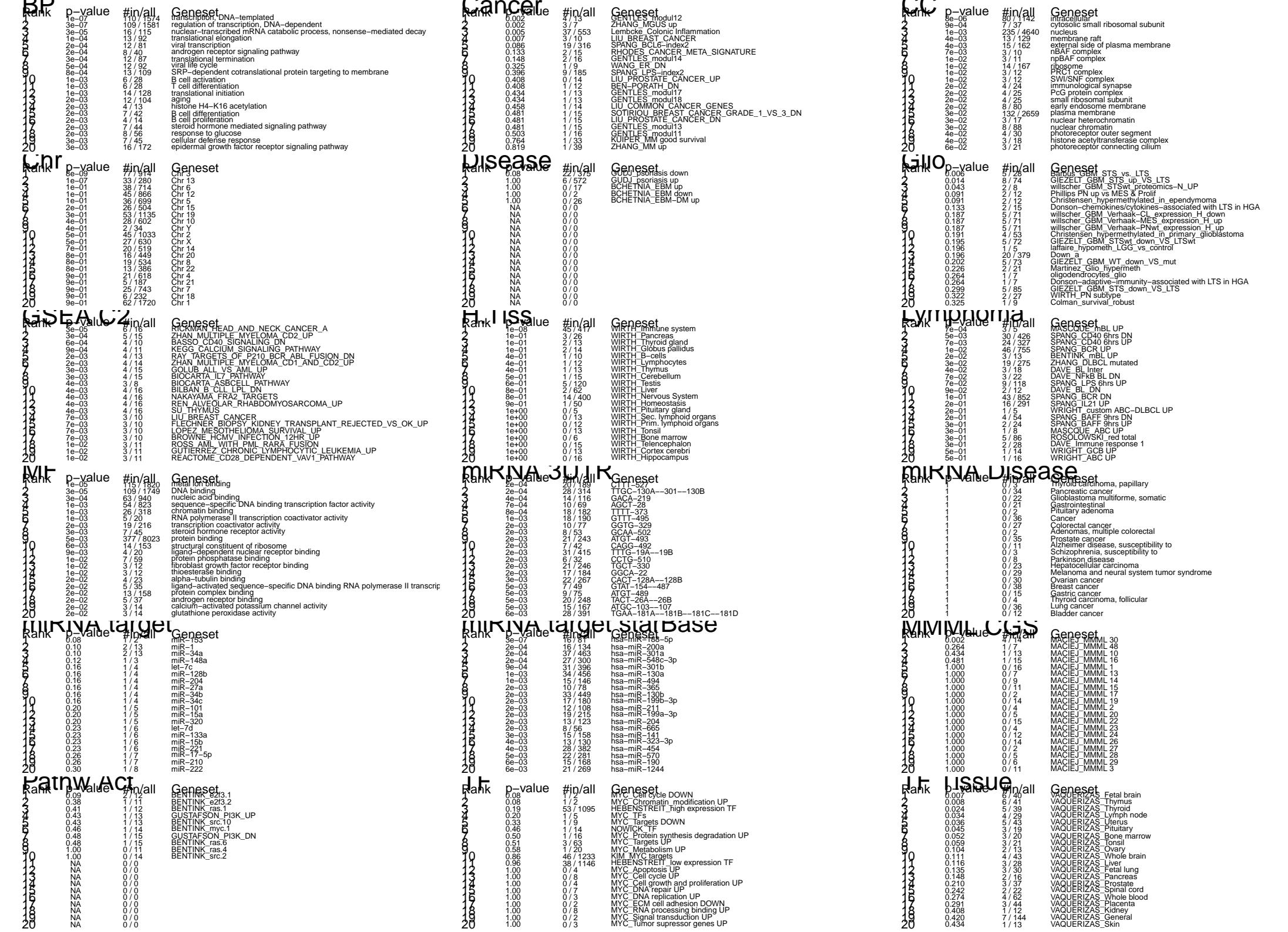
Rank	ID	max e	min e	r	Description	Symbol
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1	54959	2.94	-0.58	0.36	ODAM	odontogenic, ameloblast associated [Source:HGNC Symbol;Acc:7655]
2	4602	2.8	-1.04	0.76	MYB	v-myb avian myeloblastosis viral oncogene homolog [Source:HGNC Symbol;Acc:7656]
3	728715	2.6	-1.25	0.5	RP11-726G1.1	
4	83988	2.43	-1.29	0.53	NCALD	neurocalcin delta [Source:HGNC Symbol;Acc:7655]
5	26002	2.42	-1.28	0.41	MOXDI	monoxygenase, DBH-like 1 [Source:HGNC Symbol;Acc:2104]
6	1298	2.41	-1.14	0.55	COL9A2	collagen, type IX, alpha 2 [Source:HGNC Symbol;Acc:2218]
7	6263	2.31	-0.72	0.41	RYR3	ryanodine receptor 3 [Source:HGNC Symbol;Acc:10485]
8	10439	2.3	-1.77	0.44	OLFM1	olfactomedin 1 [Source:HGNC Symbol;Acc:17187]
9	2248	2.21	-0.33	0.4	FGF3	fibroblast growth factor 3 [Source:HGNC Symbol;Acc:3681]
10	10562	2.2	-0.61	0.19	OLFM4	olfactomedin 4 [Source:HGNC Symbol;Acc:17190]
11	6542	2.15	-1.11	0.53	SLC7A2	solute carrier family 7 (cationic amino acid transporter, y+ system)
12	21	2.13	-0.7	0.74	ABCA3	ATP-binding cassette, sub-family A (ABC1), member 3 [Source:HGNC Symbol;Acc:31696]
13	9603	2.1	-1.75	0.49	NFE2L3	nuclear factor, erythroid 2-like 3 [Source:HGNC Symbol;Acc:31696]
14	494470	2.04	-1.37	0.6	RNF165	ring finger protein 165 [Source:HGNC Symbol;Acc:31696]
15	1959	2.02	-1.28	0.36	EGR2	early growth response 2 [Source:HGNC Symbol;Acc:3239]
16	909	1.99	-1.12	0.34	CD1A	CD1a molecule [Source:HGNC Symbol;Acc:1634]
17	3670	1.98	-0.84	0.35	ISL1	ISL LIM homeobox 1 [Source:HGNC Symbol;Acc:6132]
18	26824	1.91	-0.97	0.28	RNU11	RNA, U11 small nuclear [Source:HGNC Symbol;Acc:10108]
19	9915	1.9	-0.54	0.7	ARNT2	aryl-hydrocarbon receptor nuclear translocator 2 [Source:HGNC Symbol;Acc:31696]
20	63917	1.86	-1.59	0.42	GALNT1	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 1 [Source:HGNC Symbol;Acc:31696]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	8e-09	77 / 914	Chr Chr 3
2	1e-08	45 / 417	H.Tiss WIRTH_Immune system
3	1e-07	110 / 1574	BP transcription, DNA-templated
4	1e-07	33 / 280	Chr Chr 13
5	3e-07	16 / 81	miRN hsa-miR-188-5p
6	3e-07	109 / 1581	regulation of transcription, DNA-dependent
7	8e-06	80 / 1142	CC intracellular
8	1e-05	115 / 1820	MF metal ion binding
9	3e-05	16 / 115	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
10	3e-05	109 / 1749	MF DNA binding
11	3e-05	6 / 16	GSE/ RICKMAN_HEAD_AND_NECK_CANCER_A
12	1e-04	13 / 92	BP translational elongation
13	2e-04	12 / 81	BP viral transcription
14	2e-04	20 / 189	miRN CTTT-527
15	2e-04	16 / 134	miRN hsa-miR-200a
16	2e-04	37 / 463	miRN hsa-miR-301a
17	2e-04	28 / 314	miRN TTGC-130A---301---130B
18	2e-04	27 / 300	miRN hsa-miR-548c-3p
19	2e-04	8 / 40	BP androgen receptor signaling pathway
20	3e-04	63 / 940	MF nucleic acid binding
21	3e-04	5 / 15	GSE/ ZHAN_MULTIPLE_MYELOMA_CD2_UP
22	3e-04	12 / 87	BP translational termination
23	4e-04	14 / 116	miRN GACA-219
24	5e-04	12 / 92	BP viral life cycle
25	6e-04	4 / 10	GSE/ BASSO_CD40_SIGNALING_DN
26	7e-04	10 / 69	miRN AGCT-28
27	7e-04	3 / 5	Lymph MASQUE_mBL UP
28	8e-04	13 / 109	BP SRP-dependent cotranslational protein targeting to membrane
29	8e-04	18 / 182	miRN TTTT-373
30	9e-04	7 / 37	CC cytosolic small ribosomal subunit
31	9e-04	4 / 11	GSE/ KEGG_CALCIUM_SIGNALING_PATHWAY
32	9e-04	31 / 396	miRN hsa-miR-301b
33	1e-03	6 / 28	BP B cell activation
34	1e-03	6 / 28	BP T cell differentiation
35	1e-03	14 / 128	BP translational initiation
36	1e-03	54 / 823	MF sequence-specific DNA binding transcription factor activity
37	1e-03	235 / 4640	CC nucleus
38	1e-03	34 / 456	miRN hsa-miR-130a
39	1e-03	26 / 318	MF chromatin binding
40	1e-03	5 / 20	MF RNA polymerase II transcription coactivator activity





K-Means Cluster

Spot Summary: D

metagenes = 83
genes = 699

<r> metagenes = 0.87

<r> genes = 0.21

beta: r2= 3.21 / log p= -Inf

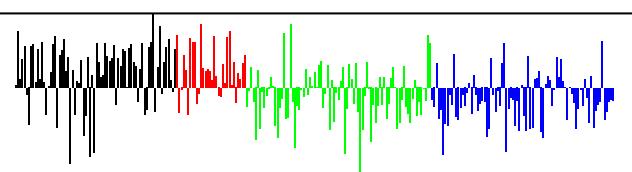
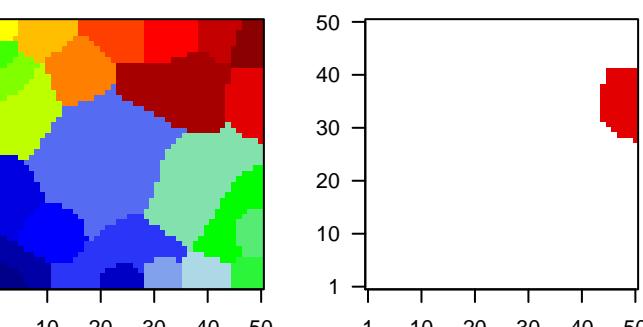
samples with spot = 4 (1.5 %)

Atypical : 2 (2.7 %)

Classical : 1 (3.1 %)

Mesenchymal : 1 (1.2 %)

Overview Map

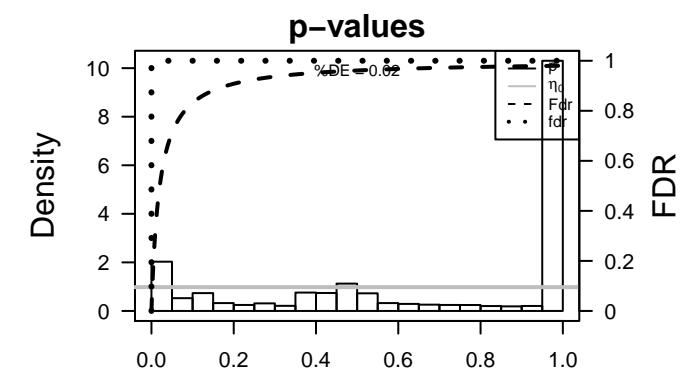


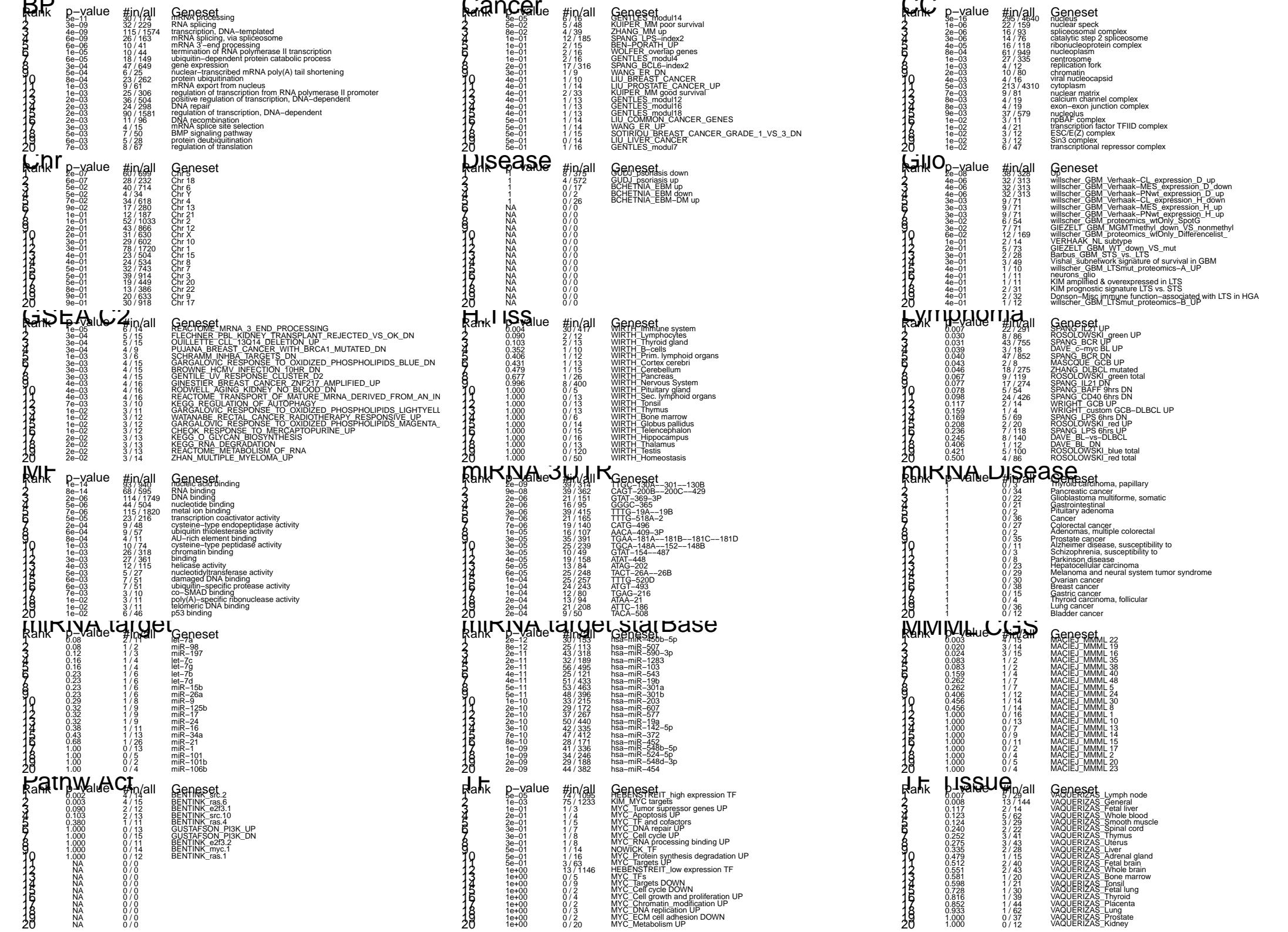
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol
1	64207	1.94	-2.13	0.27	IRF2BPL interferon regulatory factor 2 binding protein-like [Source:HGNC Symbol;Acc:64207]	IRF2BPL
2	27075	1.78	-1.45	0.37	TSPAN13 tetraspanin 13 [Source:HGNC Symbol;Acc:21643]	TSPAN13
3	5274	1.74	-0.65	0.41	SERPINA1 serpin peptidase inhibitor, clade I (neuroserpin), member 1 [Source:HGNC Symbol;Acc:5274]	SERPINA1
4	2059	1.62	-0.67	0.48	EPS8 epidermal growth factor receptor pathway substrate 8 [Source:HGNC Symbol;Acc:2059]	EPS8
5	4254	1.49	-1.1	0.5	KITLG KIT ligand [Source:HGNC Symbol;Acc:6343]	KITLG
6	10257	1.47	-0.85	0.54	ABCC4 ATP-binding cassette, sub-family C (CFTR/MRP), member 4 [Source:HGNC Symbol;Acc:10257]	ABCC4
7	81552	1.46	-0.72	0.3	VOPP1 vesicular, overexpressed in cancer, prosurvival protein 1 [Source:HGNC Symbol;Acc:81552]	VOPP1
8	11212	1.46	-1.05	0.35	PROSC proline synthetase co-transcribed homolog (bacterial) [Source:HGNC Symbol;Acc:11212]	PROSC
9	4856	1.43	-0.77	0.25	NOV nephroblastoma overexpressed [Source:HGNC Symbol;Acc:74856]	NOV
10	132430	1.42	-0.8	0.39	PABPC4l poly(A) binding protein, cytoplasmic 4-like [Source:HGNC Symbol;Acc:132430]	PABPC4l
11	57088	1.41	-1.2	0.24	PLSCR4 phospholipid scramblase 4 [Source:HGNC Symbol;Acc:16497]	PLSCR4
12	1953	1.4	-0.87	0.37	MEGF6 multiple EGF-like-domains 6 [Source:HGNC Symbol;Acc:321953]	MEGF6
13	60481	1.39	-1.17	0.5	ELOVL5 ELOVL fatty acid elongase 5 [Source:HGNC Symbol;Acc:21360481]	ELOVL5
14	4982	1.39	-0.58	0.28	TNFRSF11B tumor necrosis factor receptor superfamily, member 11b [Source:HGNC Symbol;Acc:4982]	TNFRSF11B
15	151613	1.34	-0.72	0.47	TTC14 tetratricopeptide repeat domain 14 [Source:HGNC Symbol;Acc:151613]	TTC14
16	54467	1.32	-0.78	0.42	ANKIB1 ankyrin repeat and IBR domain containing 1 [Source:HGNC Symbol;Acc:54467]	ANKIB1
17	7095	1.32	-0.69	0.46	SEC62 SEC62 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:1327095]	SEC62
18	171586	1.32	-0.85	0.49	ABHD3 abhydrolase domain containing 3 [Source:HGNC Symbol;Acc:171586]	ABHD3
19	3730	1.32	-0.6	0.36	KAL1 Kallmann syndrome 1 sequence [Source:HGNC Symbol;Acc:3730]	KAL1
20	56243	1.28	-1.1	0.22	KIAA1217 KIAA1217 [Source:HGNC Symbol;Acc:25428]	KIAA1217

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-16	295 / 4640	CC nucleus
2	1e-14	93 / 940	MF nucleic acid binding
3	8e-14	68 / 595	MF RNA binding
4	2e-12	30 / 153	miRN hsa-miR-450b-5p
5	8e-12	25 / 113	miRN hsa-miR-507
6	2e-11	43 / 318	miRN hsa-miR-590-3p
7	2e-11	32 / 189	miRN hsa-miR-1283
8	2e-11	56 / 495	miRN hsa-miR-103
9	4e-11	25 / 121	miRN hsa-miR-543
10	4e-11	51 / 433	miRN hsa-miR-19b
11	5e-11	53 / 463	miRN hsa-miR-301a
12	5e-11	30 / 174	BP mRNA processing
13	5e-11	48 / 396	miRN hsa-miR-301b
14	1e-10	33 / 215	miRN hsa-miR-203
15	2e-10	29 / 172	miRN hsa-miR-607
16	2e-10	37 / 267	miRN hsa-miR-577
17	2e-10	50 / 440	miRN hsa-miR-19a
18	3e-10	42 / 335	miRN hsa-miR-142-5p
19	7e-10	47 / 412	miRN hsa-miR-372
20	8e-10	28 / 171	miRN hsa-miR-452
21	1e-09	41 / 336	miRN hsa-miR-548b-5p
22	1e-09	34 / 246	miRN hsa-miR-524-5p
23	2e-09	29 / 188	miRN hsa-miR-548d-3p
24	2e-09	44 / 382	miRN hsa-miR-454
25	2e-09	39 / 314	miRN TTGC-130A---301---130B
26	2e-09	59 / 603	miRN hsa-miR-20a
27	2e-09	24 / 134	miRN hsa-miR-656
28	3e-09	27 / 169	miRN hsa-miR-580
29	3e-09	32 / 229	BP RNA splicing
30	4e-09	27 / 171	miRN hsa-miR-369-3p
31	4e-09	115 / 1574	BP transcription, DNA-templated
32	4e-09	54 / 538	miRN hsa-miR-17
33	4e-09	51 / 494	miRN hsa-miR-107
34	4e-09	46 / 421	miRN hsa-let-7b
35	4e-09	47 / 436	miRN hsa-miR-548n
36	6e-09	26 / 163	BP mRNA splicing, via spliceosome
37	6e-09	37 / 300	miRN hsa-miR-561
38	6e-09	20 / 100	miRN hsa-miR-544
39	7e-09	52 / 517	miRN hsa-miR-106a
40	7e-09	20 / 101	miRN hsa-miR-410





K-Means Cluster

Spot Summary: E

metagenes = 103

genes = 682

<r> metagenes = 0.79

<r> genes = 0.17

beta: r2= 3.77 / log p= -Inf

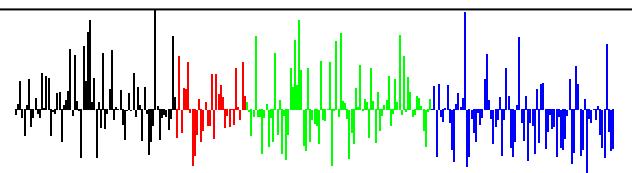
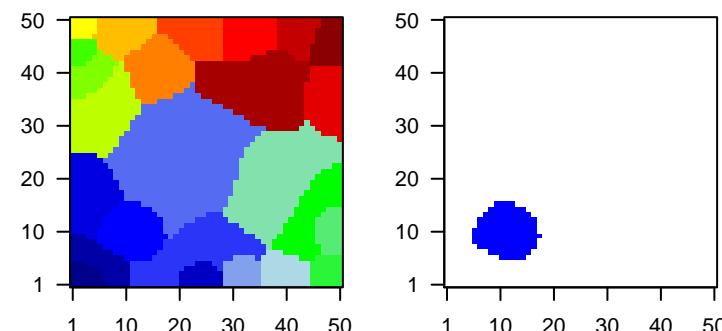
samples with spot = 19 (6.9 %)

Atypical : 8 (10.8 %)

Mesenchymal : 7 (8.2 %)

Basal : 4 (4.8 %)

Overview Map



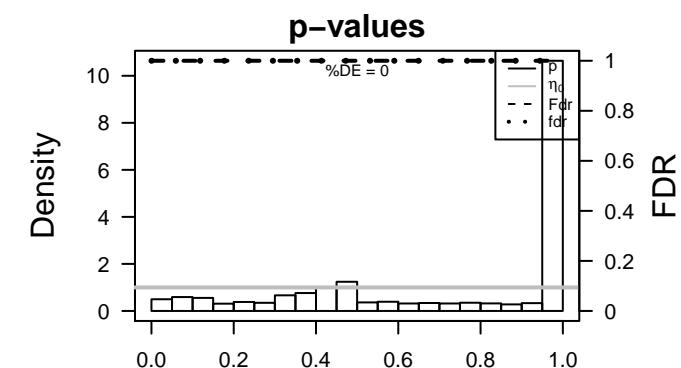
Spot Genelist

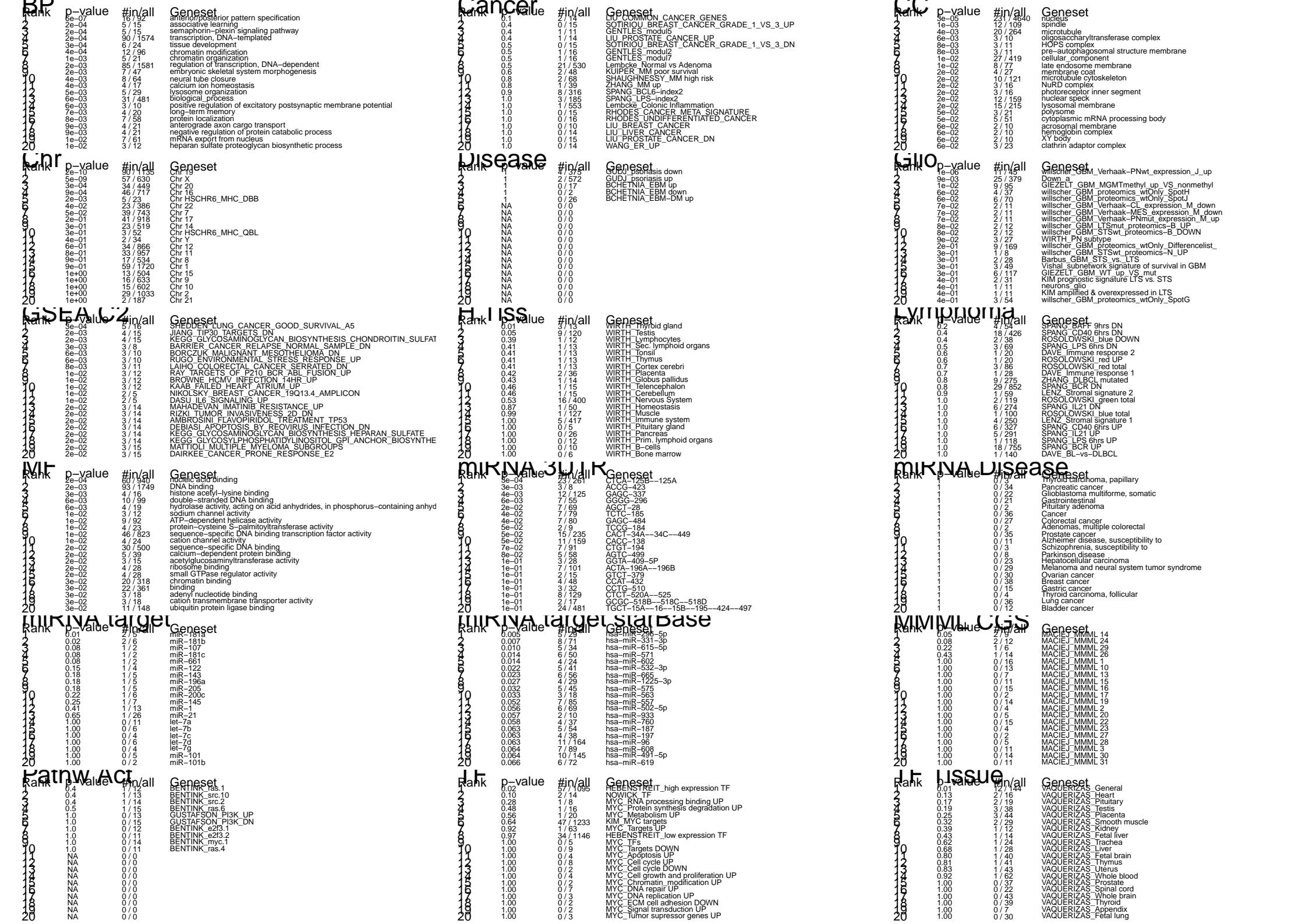
Rank	ID	max e	min e	r	Description	Symbol
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Rank	ID	max e	min e	r	Description	Symbol
1	645037	4.91	-0.85	0.85	GAGE2CG antigen 2C [Source:HGNC Symbol;Acc:31958]	
2	729422	4.91	-0.82	0.86	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:17778]	
3	729442	4.7	-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	547	2.87	-0.5	0.45	KIF1A kinesin family member 1A [Source:HGNC Symbol;Acc:888]	
20	4103	2.69	-0.85	0.47	MAGEA4melanoma antigen family A, 4 [Source:HGNC Symbol;Acc:68	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-10	90 / 1135	Chr Chr 19
2	5e-09	57 / 630	Chr Chr X
3	6e-07	16 / 92	anterior/posterior pattern specification
4	1e-06	11 / 45	willscher_GBM_Verhaak-PNwt_expression_J_up
5	3e-05	231 / 4640	CC nucleus
6	2e-04	60 / 940	MF nucleic acid binding
7	2e-04	5 / 15	BP associative learning
8	2e-04	5 / 15	BP semaphorin-plexin signaling pathway
9	2e-04	90 / 1574	BP transcription, DNA-templated
10	3e-04	34 / 449	Chr Chr 20
11	3e-04	6 / 24	BP tissue development
12	3e-04	5 / 16	GSE/ SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A5
13	3e-04	23 / 261	miRN CTCA-125B-125A
14	4e-04	12 / 96	BP chromatin modification
15	9e-04	46 / 717	Chr Chr 16
16	1e-03	5 / 21	BP chromatin organization
17	1e-03	12 / 109	CC spindle
18	2e-03	5 / 23	Chr Chr HSCHR6_MHC_DBB
19	2e-03	93 / 1749	MF DNA binding
20	2e-03	85 / 1581	BP regulation of transcription, DNA-dependent
21	2e-03	4 / 15	GSE/ JIANG_TIP30_TARGETS_DN
22	2e-03	4 / 15	GSE/ KEGG_GLYCOSAMINOGLYCAN BIOSYNTHESIS_CHONDROITIN_SULF
23	2e-03	7 / 47	BP embryonic skeletal system morphogenesis
24	3e-03	3 / 8	GSE/ BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_DN
25	3e-03	3 / 8	miRN ACCG-423
26	3e-03	4 / 16	MF histone acetyl-lysine binding
27	4e-03	8 / 64	BP neural tube closure
28	4e-03	4 / 17	BP calcium ion homeostasis
29	4e-03	12 / 125	miRN GAGC-337
30	4e-03	20 / 264	CC microtubule
31	5e-03	5 / 29	BP lysosome organization
32	5e-03	5 / 29	miRN hsa-miR-296-5p
33	6e-03	31 / 481	BP biological_process
34	6e-03	7 / 55	miRN GGGG-296
35	6e-03	10 / 99	MF double-stranded DNA binding
36	6e-03	4 / 19	MF hydrolase activity, acting on acid anhydrides, in phosphorus-containing an
37	6e-03	3 / 10	CC oligosaccharyltransferase complex
38	6e-03	3 / 10	BP positive regulation of excitatory postsynaptic membrane potential
39	6e-03	3 / 10	GSE/ BORCZUK_MALIGNANT_MESOTHELIOMA_DN
40	6e-03	3 / 10	GSE/ RUGO_ENVIRONMENTAL_STRESS_RESPONSE_UP





K-Means Cluster

Spot Summary: F

metagenes = 39
genes = 300

<r> metagenes = 0.92

<r> genes = 0.27

beta: r2= 6.54 / log p= -Inf

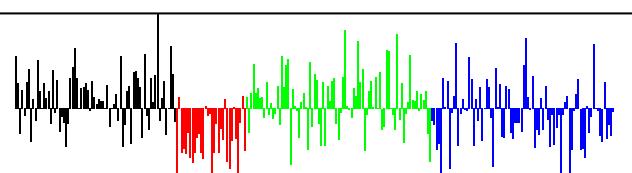
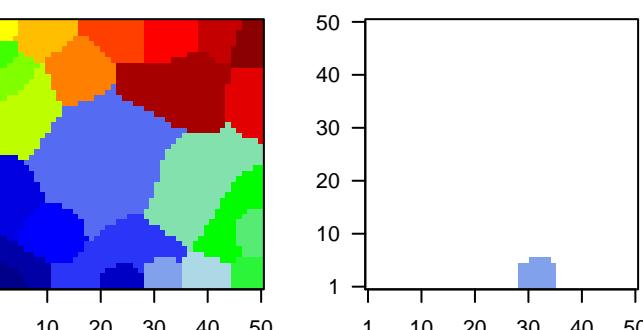
samples with spot = 37 (13.5 %)

Atypical : 14 (18.9 %)

Mesenchymal : 16 (18.8 %)

Basal : 7 (8.3 %)

Overview Map



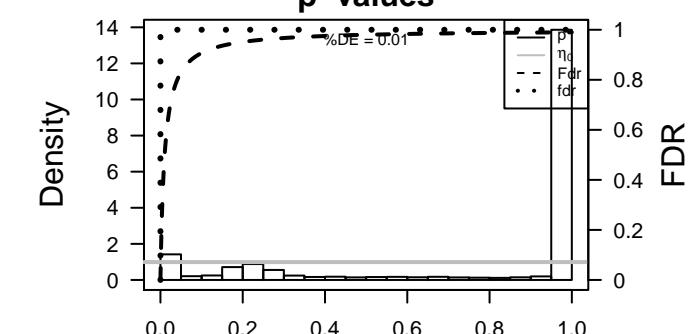
Spot Genelist

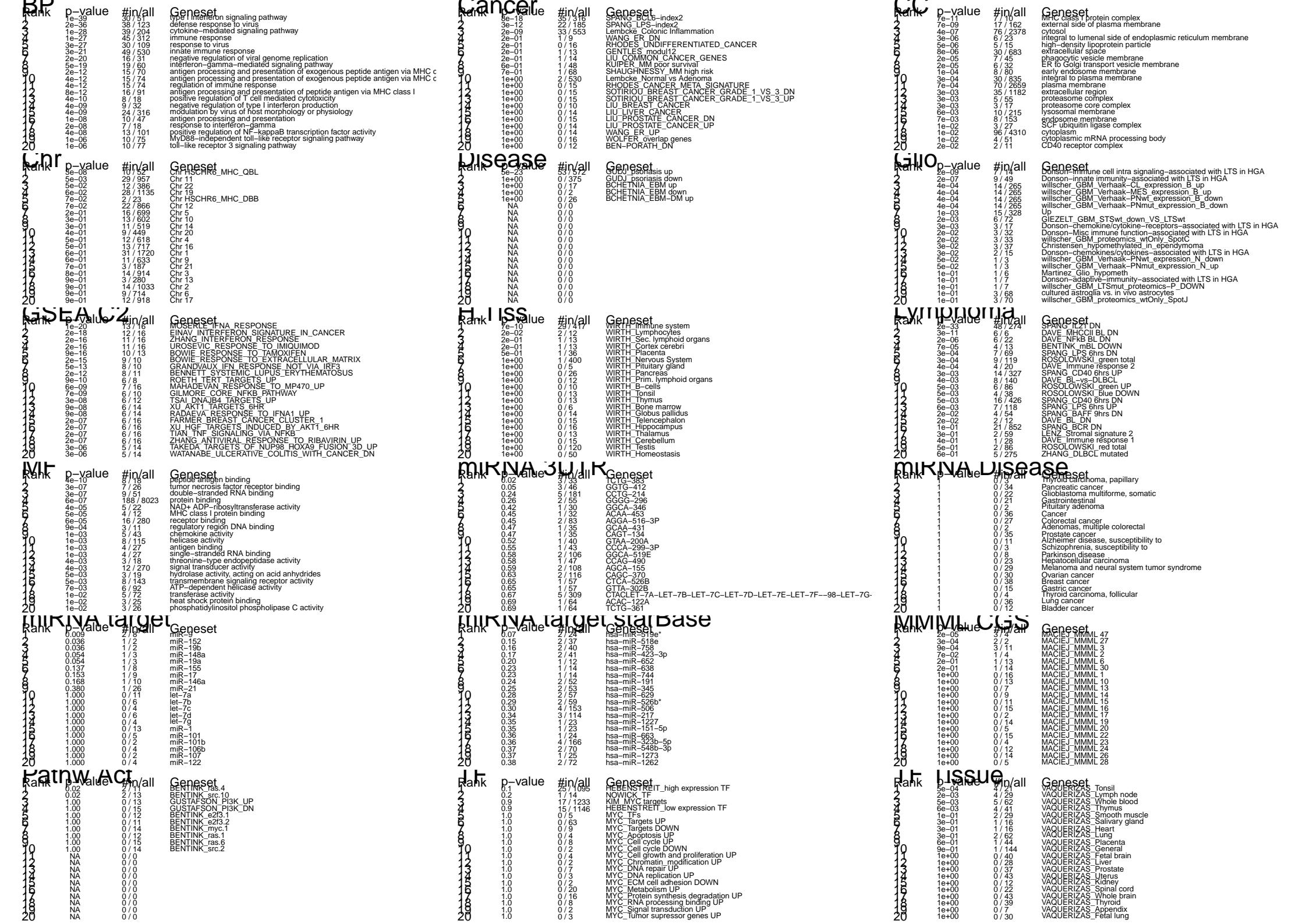
Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	3627	3.43	-2.5	0.75	CXCL10 chemokine (C-X-C motif) ligand 10 [Source:HGNC Symbol;Acc:1037]	CXCL10	1	1e-39	30 / 51	BP type I interferon signaling pathway
2	7503	2.98	-0.78	0.16	XIST X inactive specific transcript (non-protein coding) [Source:HGNC Symbol;Acc:1036]	XIST	2	2e-36	38 / 123	BP defense response to virus
3	6373	2.89	-1.08	0.54	CXCL11 chemokine (C-X-C motif) ligand 11 [Source:HGNC Symbol;Acc:1035]	CXCL11	3	2e-33	48 / 274	Lymph SPANG_IL21_DN
4	9560	2.65	-1.76	0.49	CCL4L1 chemokine (C-C motif) ligand 4-like 1 [Source:HGNC Symbol;Acc:1034]	CCL4L1	4	1e-28	39 / 204	BP cytokine-mediated signaling pathway
5	9636	2.47	-2.69	0.73	ISG15 ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:405]	ISG15	5	1e-27	45 / 312	BP immune response
6	10964	2.46	-2.33	0.78	IFI44L interferon-induced protein 44-like [Source:HGNC Symbol;Acc:1033]	IFI44L	6	3e-27	30 / 109	BP response to virus
7	8743	2.43	-2.05	0.38	TNFSF10 tumor necrosis factor (ligand) superfamily, member 10 [Source:HGNC Symbol;Acc:1032]	TNFSF10	7	5e-23	53 / 572	Disease GUDL_psoriasis up
8	629	2.42	-2.1	0.6	CFB complement factor B [Source:HGNC Symbol;Acc:1037]	CFB	8	3e-21	49 / 530	BP innate immune response
9	7453	2.35	-1.7	0.73	WARS tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:1031]	WARS	9	1e-20	13 / 16	GSEAF_MOSERLE_IFNA_RESPONSE
10	115362	2.34	-1.91	0.73	GBP5 guanylate binding protein 5 [Source:HGNC Symbol;Acc:1989]	GBP5	10	2e-20	16 / 31	BP negative regulation of viral genome replication
11	388372	2.33	-1.11	0.62	CCL4L1 chemokine (C-C motif) ligand 4-like 1 [Source:HGNC Symbol;Acc:1034]	CCL4L1	11	5e-19	19 / 60	BP interferon-gamma-mediated signaling pathway
12	6355	2.3	-1.49	0.54	CCL8 chemokine (C-C motif) ligand 8 [Source:HGNC Symbol;Acc:1033]	CCL8	12	2e-18	12 / 16	GSEAF_EINAV_INTERFERON_SIGNATURE_IN_CANCER
13	6289	2.26	-0.91	0.39	SAA2 serum amyloid A2 [Source:HGNC Symbol;Acc:10514]	SAA2	13	8e-18	35 / 316	Cancer SPANG_BCL6-index2
14	9536	2.23	-1.43	0.33	PTGES prostaglandin E synthase [Source:HGNC Symbol;Acc:9599]	PTGES	14	2e-16	11 / 16	GSEAF_ZHANG_INTERFERON_RESPONSE
15	4321	2.23	-1.74	0.44	MMP12 matrix metalloproteinase 12 (macrophage elastase) [Source:HGNC Symbol;Acc:1032]	MMP12	15	2e-16	11 / 16	GSEAF_UROSEVIC_RESPONSE_TO_IMIQUIMOD
16	970	2.2	-0.71	0.41	CD70 CD70 molecule [Source:HGNC Symbol;Acc:11937]	CD70	16	9e-16	10 / 13	GSEAF_BOWIE_RESPONSE_TO_TAMOXIFEN
17	3433	2.19	-1.63	0.69	IFIT2 interferon-induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:1033]	IFIT2	17	2e-15	9 / 10	GSEAF_BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
18	1591	2.19	-1.48	0.24	CYP24A1 cytochrome P450, family 24, subfamily A, polypeptide 1 [Source:HGNC Symbol;Acc:11892]	CYP24A1	18	5e-13	8 / 10	GSEAF_GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
19	7124	2.18	-1.07	0.36	TNF tumor necrosis factor [Source:HGNC Symbol;Acc:11892]	TNF	19	2e-12	15 / 74	BP antigen processing and presentation of exogenous peptide antigen via MHC class II
20	79931	2.06	-0.8	0.4	TNFAIP3 interacting protein 3 [Source:HGNC Symbol;Acc:1989]	TNFAIP3	20	2e-12	8 / 11	GSEAF_BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-39	30 / 51	BP type I interferon signaling pathway
2	2e-36	38 / 123	BP defense response to virus
3	2e-33	48 / 274	Lymph SPANG_IL21_DN
4	1e-28	39 / 204	BP cytokine-mediated signaling pathway
5	1e-27	45 / 312	BP immune response
6	3e-27	30 / 109	BP response to virus
7	5e-23	53 / 572	Disease GUDL_psoriasis up
8	3e-21	49 / 530	BP innate immune response
9	1e-20	13 / 16	GSEAF_MOSERLE_IFNA_RESPONSE
10	2e-20	16 / 31	BP negative regulation of viral genome replication
11	5e-19	19 / 60	BP interferon-gamma-mediated signaling pathway
12	2e-18	12 / 16	GSEAF_EINAV_INTERFERON_SIGNATURE_IN_CANCER
13	8e-18	35 / 316	Cancer SPANG_BCL6-index2
14	2e-16	11 / 16	GSEAF_ZHANG_INTERFERON_RESPONSE
15	2e-16	11 / 16	GSEAF_UROSEVIC_RESPONSE_TO_IMIQUIMOD
16	9e-16	10 / 13	GSEAF_BOWIE_RESPONSE_TO_TAMOXIFEN
17	2e-15	9 / 10	GSEAF_BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX
18	5e-13	8 / 10	GSEAF_GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
19	2e-12	15 / 74	BP antigen processing and presentation of exogenous peptide antigen via MHC class II
20	2e-12	8 / 11	GSEAF_BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS

p-values





K-Means Cluster

Spot Summary: G

metagenes = 55
genes = 537

<r> metagenes = 0.92

<r> genes = 0.34

beta: r2= 8.57 / log p= -Inf

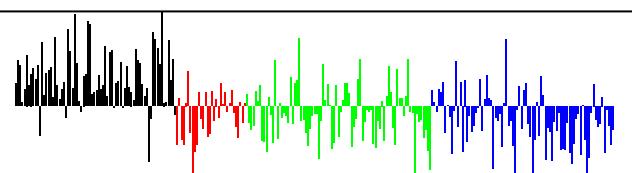
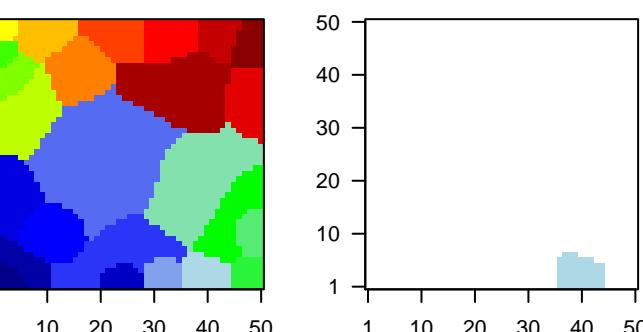
samples with spot = 35 (12.7 %)

Atypical : 27 (36.5 %)

Mesenchymal : 6 (7.1 %)

Basal : 2 (2.4 %)

Overview Map



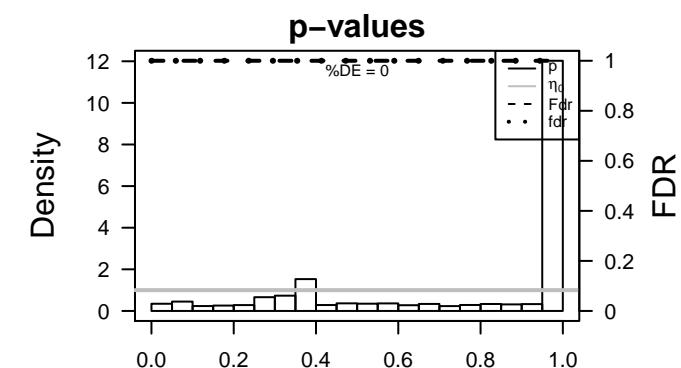
Spot Genelist

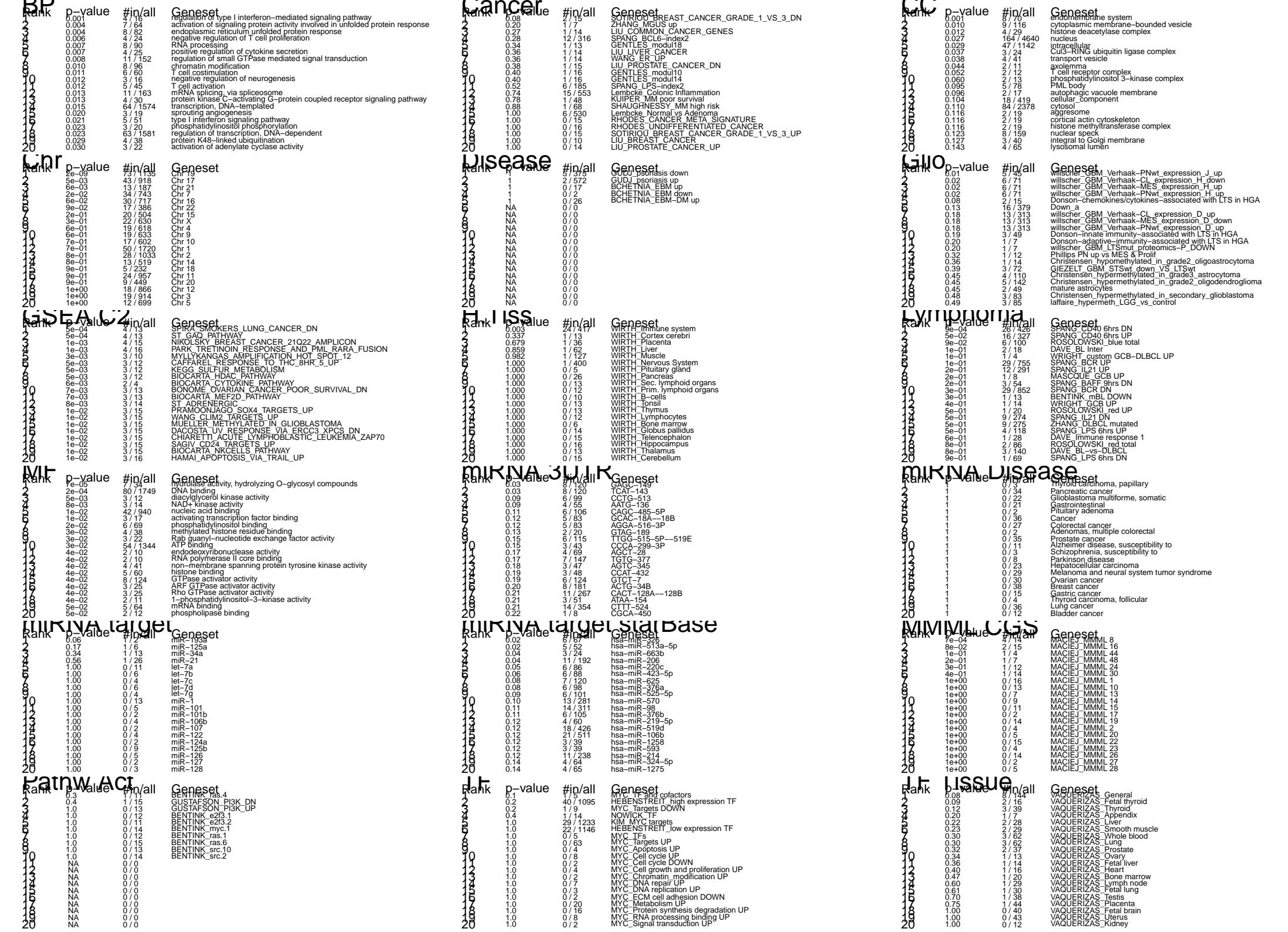
Rank	ID	max e	min e	r	Description	Symbol
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Rank	ID	max e	min e	r	Description	Symbol
1	3127	4.47	-1.24	0.19	HLA-DRB5	major histocompatibility complex, class II, DR beta 5 [Source:HGNC Symbol;Acc:75]
2	125050	2.79	-0.87	0.28	RN7SK	RNA, 7SK small nuclear [Source:HGNC Symbol;Acc:10037]
3	22809	2.1	-1.19	0.63	ATF5	activating transcription factor 5 [Source:HGNC Symbol;Acc:75]
4	6376	2.05	-1.53	0.43	CX3CL1	chemokine (C-X3-C motif) ligand 1 [Source:HGNC Symbol;Acc:75]
5	11067	1.82	-1.18	0.53	C10orf10	chromosome 10 open reading frame 10 [Source:HGNC Symt]
6	80162	1.79	-0.97	0.67	ATHL1	ATH1, acid trehalase-like 1 (yeast) [Source:HGNC Symbol;Acc:10037]
7	84061	1.78	-1.53	0.84	MAGT1	magnesium transporter 1 [Source:HGNC Symbol;Acc:28880]
8	126205	1.77	-1.63	0.93	NLRP8	NLR family, pyrin domain containing 8 [Source:HGNC Symbo]
9	84446	1.74	-1.13	0.68	BRSK1	BR serine/threonine kinase 1 [Source:HGNC Symbol;Acc:185]
10	51326	1.73	-1.07	0.41	ARL17B	ADP-ribosylation factor-like 17B [Source:HGNC Symbol;Acc:10037]
11	23475	1.73	-0.82	0.44	QPRT	quinolinate phosphoribosyltransferase [Source:HGNC Symbc]
12	2120	1.7	-1.04	0.72	ETV6	ets variant 6 [Source:HGNC Symbol;Acc:3495]
13	401261	1.68	-0.87	0.83		
14	7127	1.66	-0.92	0.42	TNFAIP2	tumor necrosis factor, alpha-induced protein 2 [Source:HGNC Symbol;Acc:10037]
15	79058	1.66	-1.01	0.63	ASPCR	alveolar soft part sarcoma chromosome region, candidate 1 [
16	618	1.64	-1.41	0.41	BCYRN1	brain cytoplasmic RNA 1 [Source:HGNC Symbol;Acc:1022]
17	400818	1.62	-1.99	0.69	AC23981	Neuroblastoma breakpoint family member 1 [Source:UniProt]
18	29944	1.58	-0.69	0.61	PNMA3	paraneoplastic Ma antigen 3 [Source:HGNC Symbol;Acc:187]
19	4851	1.57	-1.35	0.44	NOTCH1	notch 1 [Source:HGNC Symbol;Acc:7881]
20	25862	1.53	-1.56	0.93	USP49	ubiquitin specific peptidase 49 [Source:HGNC Symbol;Acc:200]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-09	73 / 1135	Chr Chr 19
2	7e-05	7 / 34	MF hydrolase activity, hydrolyzing O-glycosyl compounds
3	2e-04	80 / 1749	MF DNA binding
4	5e-04	4 / 13	GSEA SPIRA_SMOKERS_LUNG_CANCER_DN
5	5e-04	4 / 13	GSEA ST_GAO_PATHWAY
6	7e-04	4 / 14	MM MACIEJ_MMML 8
7	9e-04	26 / 426	Lymph SPANG_CD40_6hrs DN
8	1e-03	4 / 15	GSEA NIKOLSKY_BREAST_CANCER_21Q22_AMPLICON
9	1e-03	4 / 16	BP regulation of type I interferon-mediated signaling pathway
10	1e-03	4 / 16	GSEA PARK_TRETINOIN_RESPONSE_AND_PML_RARA_FUSION
11	1e-03	8 / 70	CC endomembrane system
12	3e-03	24 / 417	H.Tiss WIRTH_Immune system
13	3e-03	3 / 10	GSEA MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_12
14	4e-03	7 / 64	BP activation of signaling protein activity involved in unfolded protein response
15	4e-03	8 / 82	BP endoplasmic reticulum unfolded protein response
16	5e-03	43 / 918	Chr Chr 17
17	5e-03	3 / 12	MF diacylglycerol kinase activity
18	5e-03	3 / 12	GSEA CAFFAREL_RESPONSE_TO_THC_8HR_5_UP
19	5e-03	3 / 12	GSEA KEGG_SULFUR_METABOLISM
20	5e-03	3 / 12	GSEA BIOCARTA_HDAC_PATHWAY
21	6e-03	2 / 4	GSEA BIOCARTA_CYTOKINE_PATHWAY
22	6e-03	13 / 187	Chr Chr 21
23	6e-03	4 / 24	BP negative regulation of T cell proliferation
24	7e-03	3 / 13	GSEA BONOME_OVARIAN_CANCER_POOR_SURVIVAL_DN
25	7e-03	3 / 13	GSEA BIOCARTA_MEF2D_PATHWAY
26	7e-03	8 / 90	BP RNA processing
27	7e-03	4 / 25	BP positive regulation of cytokine secretion
28	8e-03	11 / 152	BP regulation of small GTPase mediated signal transduction
29	8e-03	3 / 14	MF NAD+ kinase activity
30	8e-03	3 / 14	GSEA ST_ADRENERGIC
31	1e-02	8 / 96	BP chromatin modification
32	1e-02	9 / 116	CC cytoplasmic membrane-bound vesicle
33	1e-02	3 / 15	GSEA PRAMONJAGO_SOX4_TARGETS_UP
34	1e-02	3 / 15	GSEA WANG_CLIM2_TARGETS_UP
35	1e-02	3 / 15	GSEA MUELLER METHYLATED_IN_GLIOMBLASTOMA
36	1e-02	3 / 15	GSEA DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_DN
37	1e-02	3 / 15	GSEA CHIARETTI_ACUTE LYMPHOBLASTIC LEUKEMIA_ZAP70
38	1e-02	3 / 15	GSEA SAGIV_CD24_TARGETS_UP
39	1e-02	3 / 15	GSEA BIOCARTA_NKCELLS_PATHWAY
40	1e-02	6 / 60	BP T cell costimulation





K-Means Cluster

Spot Summary: H

metagenes = 35
genes = 482

$\langle r \rangle$ metagenes = 0.96

$\langle r \rangle$ genes = 0.51

beta: $r^2 = 31.06$ / log p= -Inf

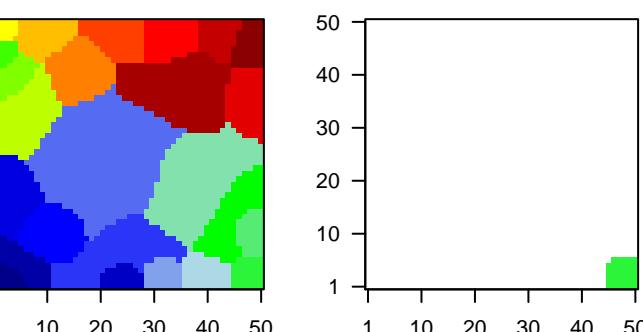
samples with spot = 66 (24 %)

Atypical : 47 (63.5 %)

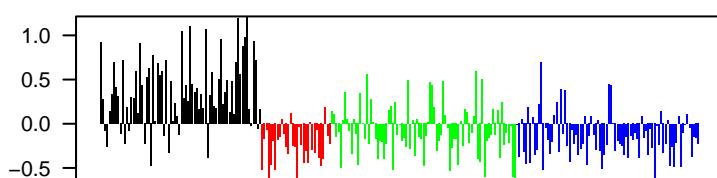
Mesenchymal : 12 (14.1 %)

Basal : 7 (8.3 %)

Overview Map



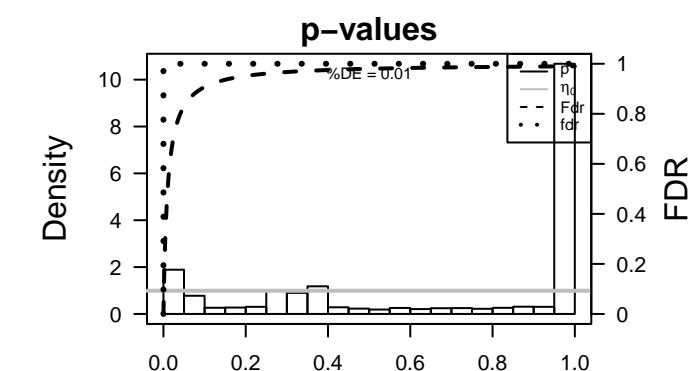
Spot

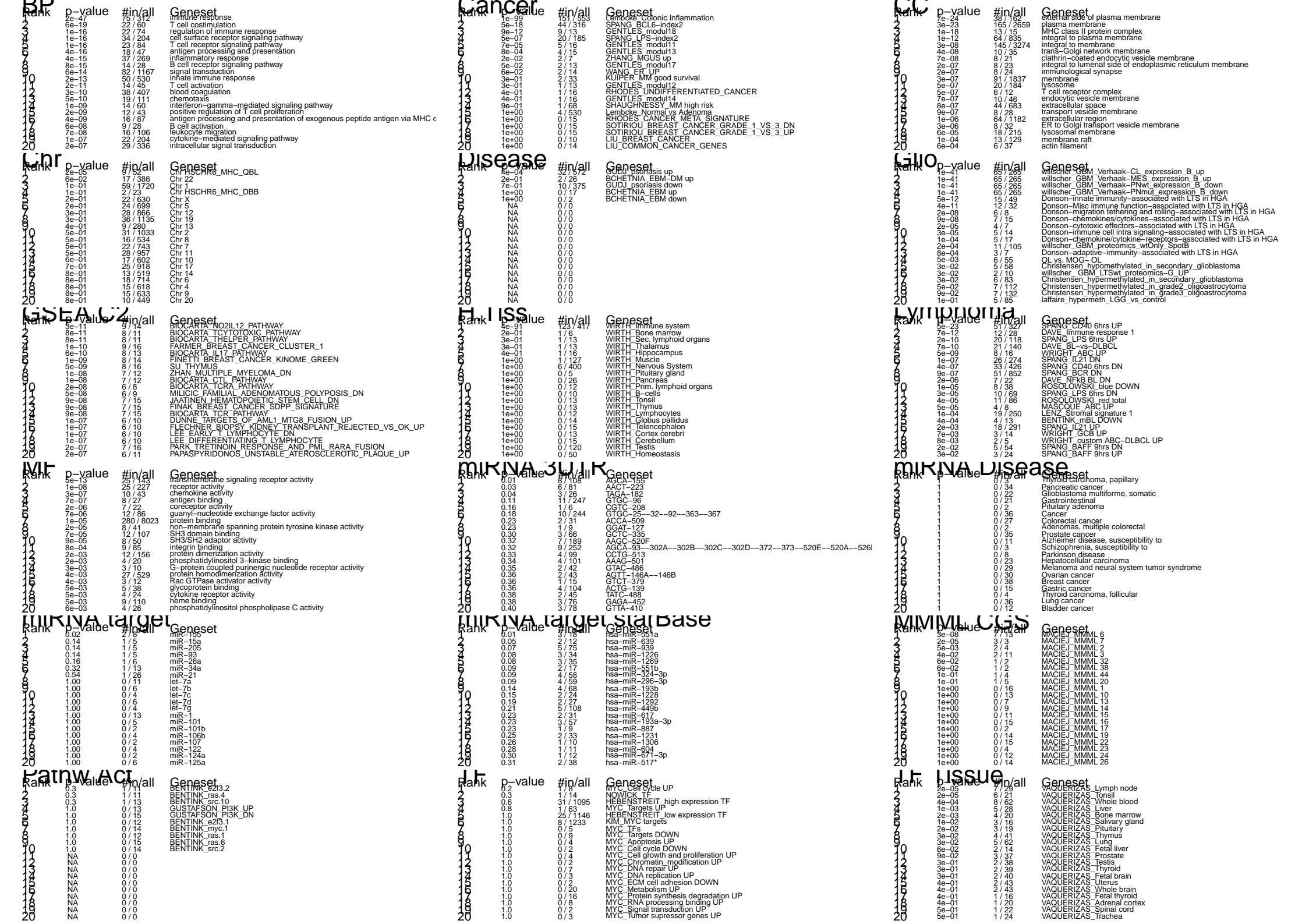


Spot Genelist

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;Acc:30829]	1	1e-99	151 / 553	Cancer Lembcke_Colonic Inflammation
2	6363	3.84	-1.64	0.79	CCL19	chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc:30829]	2	4e-91	123 / 417	H.Tiss_WIRTH_Immune system
3	3512	3.8	-2.52	0.56	IGJ	immunoglobulin J polypeptide, linker protein for immunoglobu	3	2e-47	75 / 312	BP immune response
4	3123	3.58	-1.81	0.25	HLA-DRB1	major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:30829]	4	1e-41	65 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
5	347733	3.34	-1.41	0.47	TUBB2B	tubulin, beta 2B class IIb [Source:HGNC Symbol;Acc:30829]	5	1e-41	65 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
6	3620	3.29	-1.36	0.5	IDO1	indoleamine 2,3-dioxygenase 1 [Source:HGNC Symbol;Acc:30829]	6	1e-41	65 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
7	10537	3.29	-1.89	0.78	UBD	ubiquitin D [Source:HGNC Symbol;Acc:18795]	7	1e-41	65 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
8	930	3.28	-1.12	0.82	CD19	CD19 molecule [Source:HGNC Symbol;Acc:1633]	8	7e-24	38 / 162	CC external side of plasma membrane
9	5730	3.15	-1.43	0.71	PTGDS	prostaglandin D2 synthase 21kDa (brain) [Source:HGNC Symbol;Syn:PTGDS]	9	3e-23	165 / 2659	CC plasma membrane
10	6366	3.15	-1.26	0.57	CCL21	chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc:30829]	10	5e-23	51 / 327	Lymp SPANG_CD40_6hrs UP
11	57172	3.1	-2.31	0.69	CAMK1G	calcium/calmodulin-dependent protein kinase IG [Source:HGNC Symbol;Acc:30829]	11	6e-19	22 / 60	BP T cell costimulation
12	6364	3.07	-3.08	0.26	CCL20	chemokine (C-C motif) ligand 20 [Source:HGNC Symbol;Acc:30829]	12	1e-18	13 / 15	CC MHC class II protein complex
13	4069	3.05	-1.52	0.62	LYZ	lysozyme [Source:HGNC Symbol;Acc:6740]	13	5e-18	44 / 316	Cancer SPANG_BCL6-index2
14	9806	3.05	-1.59	0.84	SPOCK2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan	14	1e-16	22 / 74	BP regulation of immune response
15	4283	2.98	-1.9	0.55	CXCL9	chemokine (C-X-C motif) ligand 9 [Source:HGNC Symbol;Acc:30829]	15	1e-16	34 / 204	BP cell surface receptor signaling pathway
16	962	2.92	-1.66	0.95	CD48	CD48 molecule [Source:HGNC Symbol;Acc:1683]	16	1e-16	23 / 84	BP T cell receptor signaling pathway
17	1545	2.91	-1.15	0.48	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptide 1 [Source:HGNC Symbol;Acc:30829]	17	4e-16	18 / 47	BP antigen processing and presentation
18	25849	2.86	-1.41	0.61	PARM1	prostate androgen-regulated mucin-like protein 1 [Source:HGNC Symbol;Acc:30829]	18	4e-15	37 / 269	BP inflammatory response
19	3120	2.85	-1.57	0.37	HLA-DQB1	major histocompatibility complex, class II, DQ beta 2 [Source:HGNC Symbol;Acc:30829]	19	8e-15	14 / 28	BP B cell receptor signaling pathway
20	51755	2.83	-2.17	0.66	CDK12	cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:242]	20	6e-14	82 / 1167	BP signal transduction
							21	2e-13	50 / 530	BP innate immune response
							22	5e-13	25 / 143	MF transmembrane signaling receptor activity
							23	1e-12	64 / 835	CC integral plasma membrane
							24	5e-12	15 / 49	Glio Donson-innate immunity-associated with LTS in HGA
							25	7e-12	12 / 28	Lymp DAVE_Immune response 1
							26	9e-12	9 / 13	Cancer GENTLES_modul18
							27	2e-11	14 / 45	BP T cell activation
							28	3e-11	9 / 14	GSE/ BIOCARTA_NO2IL12_PATHWAY
							29	4e-11	12 / 32	Glio Donson-Misc immune function-associated with LTS in HGA
							30	8e-11	8 / 11	GSE/ BIOCARTA_TCYTOTOXIC_PATHWAY
							31	8e-11	8 / 11	GSE/ BIOCARTA_THelper_PATHWAY
							32	1e-10	9 / 16	GSE/ FARMER_BREAST_CANCER_CLUSTER_1
							33	2e-10	20 / 118	Lymp SPANG_LPS_6hrs UP
							34	3e-10	38 / 407	BP blood coagulation
							35	5e-10	19 / 111	BP chemotaxis
							36	6e-10	8 / 13	GSE/ BIOCARTA_L17_PATHWAY
							37	7e-10	21 / 140	Lymp DAVE_BL-vs-DLBCL
							38	1e-09	8 / 14	GSE/ FINETTI_BREAST_CANCER_KINOME_GREEN
							39	1e-09	14 / 60	BP interferon-gamma-mediated signaling pathway
							40	2e-09	12 / 43	BP positive regulation of T cell proliferation

Geneset Overrepresentation





K-Means Cluster

Spot Summary: I

metagenes = 274

genes = 977

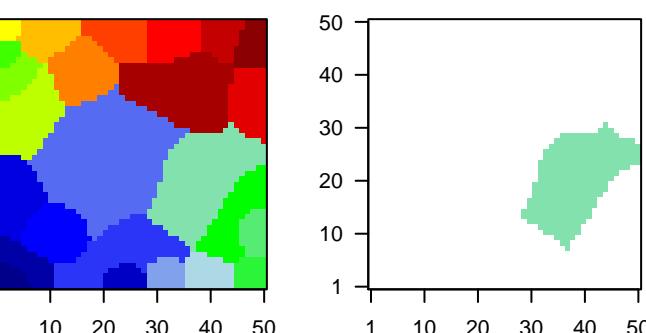
$\langle r \rangle$ metagenes = 0.67

$\langle r \rangle$ genes = 0.09

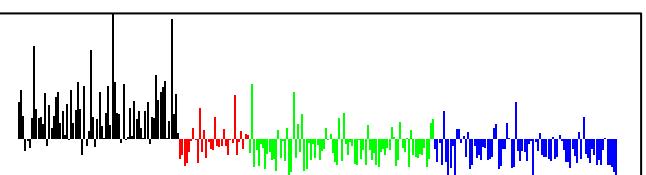
beta: $r^2 = 0.78$ / log p= -Inf

samples with spot = 0 (0 %)

Overview Map



Spot



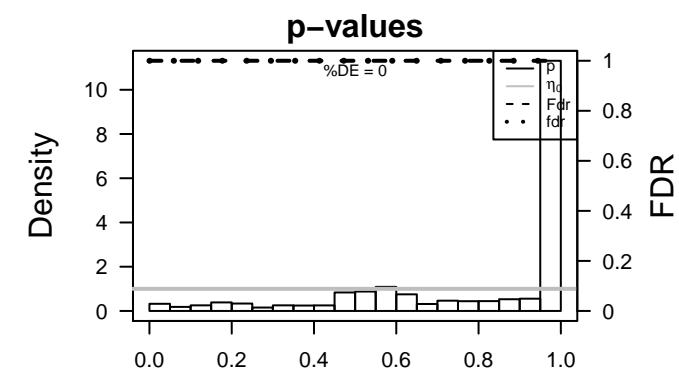
Spot Genelist

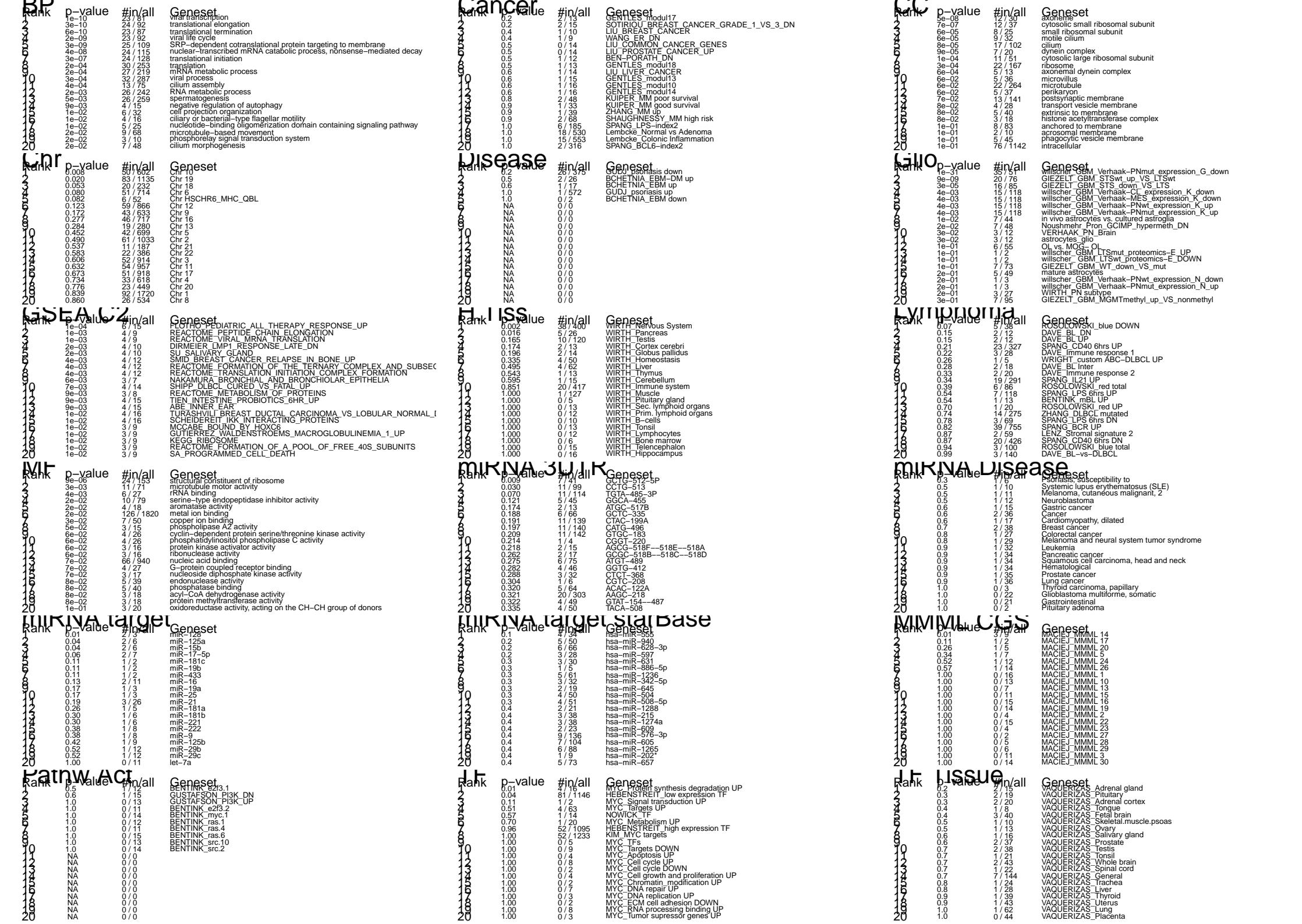
Rank	ID	max e	min e	r	Description	Symbol
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1	85415	2.15	-1.21	0.31	RPHN2 rhophilin, Rho GTPase binding protein 2 [Source:HGNC Symbol]	
2	8190	1.95	-0.45	0.38	MIA melanoma inhibitory activity [Source:HGNC Symbol;Acc:7074]	
3	149563	1.76	-0.33	0.37	C1orf64 chromosome 1 open reading frame 64 [Source:HGNC Symbol]	
4	1448	1.61	-0.19	0.3	CSN3 casein kappa [Source:HGNC Symbol;Acc:2446]	
5	4250	1.58	-0.36	0.4	SCGB2A2 secretoglobin, family 2A, member 2 [Source:HGNC Symbol;A	
6	9518	1.58	-0.65	0.3	GDF15 growth differentiation factor 15 [Source:HGNC Symbol;Acc:3034]	
7	2813	1.57	-0.26	0.53	GP2 glycoprotein 2 (zymogen granule membrane) [Source:HGNC Symbol]	
8	127003	1.5	-0.31	0.82	C1orf194 chromosome 1 open reading frame 194 [Source:HGNC Symbol]	
9	84688	1.47	-0.34	0.73	C9orf24 chromosome 9 open reading frame 24 [Source:HGNC Symbol]	
10	3212	1.46	-0.74	0.32	HOXB2 homeobox B2 [Source:HGNC Symbol;Acc:5113]	
11	399949	1.4	-0.3	0.62	C11orf88 chromosome 11 open reading frame 88 [Source:HGNC Symbol]	
12	83657	1.39	-0.51	0.69	DYNLRB2 dynein, light chain, roadblock-type 2 [Source:HGNC Symbol]	
13	222256	1.37	-0.27	0.7	CDHR3 cadherin-related family member 3 [Source:HGNC Symbol;Acc:5114]	
14	5542	1.36	-0.21	0.44	PRB1 proline-rich protein BstNI subfamily 1 [Source:HGNC Symbol]	
15	283	1.34	-0.66	0.52	ANG angioatin, ribonuclease, RNase A family, 5 [Source:HGNC Symbol]	
16	55861	1.33	-1.37	0.3	DBNDD2 dysbindin (dystrobrevin binding protein 1) domain containing 2 [Source:HGNC Symbol]	
17	89765	1.31	-0.28	0.81	RSPH1 radial spoke head 1 homolog (Chlamydomonas) [Source:HGNC Symbol]	
18	85016	1.31	-0.41	0.35	C11orf70 chromosome 11 open reading frame 70 [Source:HGNC Symbol]	
19	65987	1.28	-0.62	0.26	KCTD14 potassium channel tetramerization domain containing 14 [Source:HGNC Symbol]	
20	116151	1.28	-0.93	0.43	FAM210B family with sequence similarity 210, member B [Source:HGNC Symbol]	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-31	35 / 51	Glio willscher_GBM_Verhaak-PNmut_expression_G_down
2	1e-10	23 / 81	BP viral transcription
3	3e-10	24 / 92	translational elongation
4	6e-10	23 / 87	translational termination
5	2e-09	23 / 92	BP viral life cycle
6	3e-09	25 / 109	SRP-dependent cotranslational protein targeting to membrane
7	9e-09	20 / 76	Glio GIEZELT_GBM_STS_up_vs_LTSwt
8	4e-08	24 / 115	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
9	5e-08	12 / 30	CC axoneme
10	3e-07	24 / 128	BP translational initiation
11	7e-07	12 / 37	CC cytosolic small ribosomal subunit
12	9e-06	24 / 153	MF structural constituent of ribosome
13	3e-05	16 / 85	Glio GIEZELT_GBM_STS_down_vs_LTS
14	6e-05	8 / 25	CC small ribosomal subunit
15	6e-05	9 / 32	CC motile cilium
16	8e-05	17 / 102	CC cilium
17	9e-05	7 / 20	CC dynein complex
18	1e-04	6 / 15	GSE/FLOTHO_PEDIATRIC_ALL_THERAPY_RESPONSE_UP
19	1e-04	11 / 51	CC cytosolic large ribosomal subunit
20	2e-04	30 / 253	BP translation
21	2e-04	27 / 219	BP mRNA metabolic process
22	3e-04	22 / 167	CC ribosome
23	3e-04	32 / 287	BP viral process
24	4e-04	13 / 75	BP cilium assembly
25	6e-04	5 / 13	CC axonemal dynein complex
26	1e-03	4 / 9	GSE/REACTOME_PEPTIDE_CHAIN_ELONGATION
27	1e-03	4 / 9	GSE/REACTOME_VIRAL_MRNA_TRANSLATION
28	2e-03	4 / 10	GSE/DIRMEIER_LMP1_RESPONSE_LATE_DN
29	2e-03	4 / 10	GSE/SU_SALIVARY_GLAND
30	2e-03	26 / 242	BP RNA metabolic process
31	2e-03	38 / 400	H.Tis: WIRTH_Nervous System
32	3e-03	11 / 71	MF microtubule motor activity
33	4e-03	15 / 118	Glio willscher_GBM_Verhaak-CL_expression_K_down
34	4e-03	15 / 118	Glio willscher_GBM_Verhaak-MES_expression_K_down
35	4e-03	15 / 118	Glio willscher_GBM_Verhaak-PNwt_expression_K_up
36	4e-03	15 / 118	Glio willscher_GBM_Verhaak-PNmut_expression_K_up
37	4e-03	4 / 12	GSE/SMID_BREAST_CANCER_RELAPSE_IN_BONE_UP
38	4e-03	4 / 12	GSE/REACTOME_FORMATION_OF_THE_TERNARY_COMPLEX_AND_SUBS
39	4e-03	4 / 12	GSE/TRANSLATION_INITIATION_COMPLEX_FORMATION
40	4e-03	6 / 27	MF rRNA binding





K-Means Cluster

Spot Summary: J

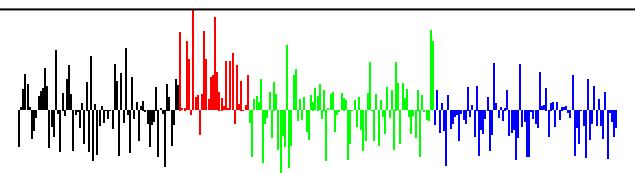
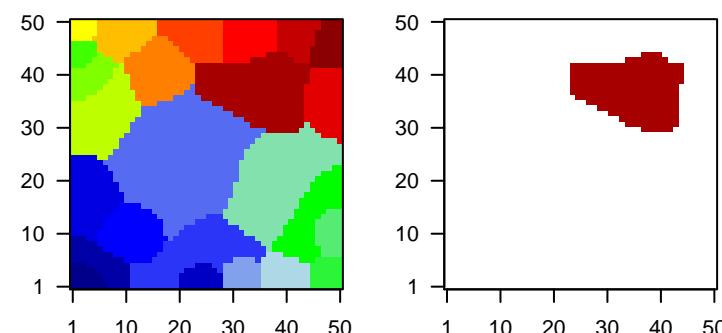
metagenes = 227
genes = 1175

$\langle r \rangle$ metagenes = 0.66

beta: $r^2 = 0.52$ / log p= -Inf

samples with spot = 0 (0 %)

Overview Map



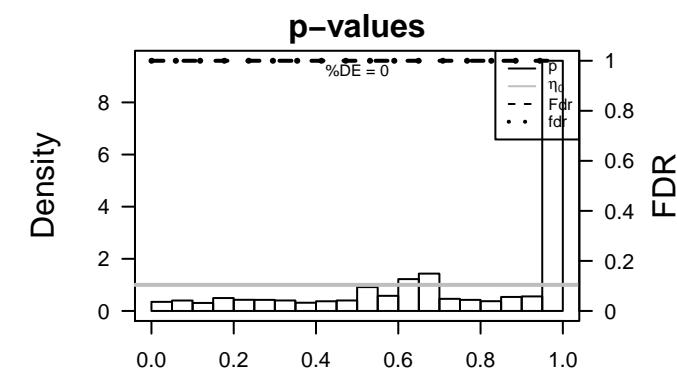
Spot Genelist

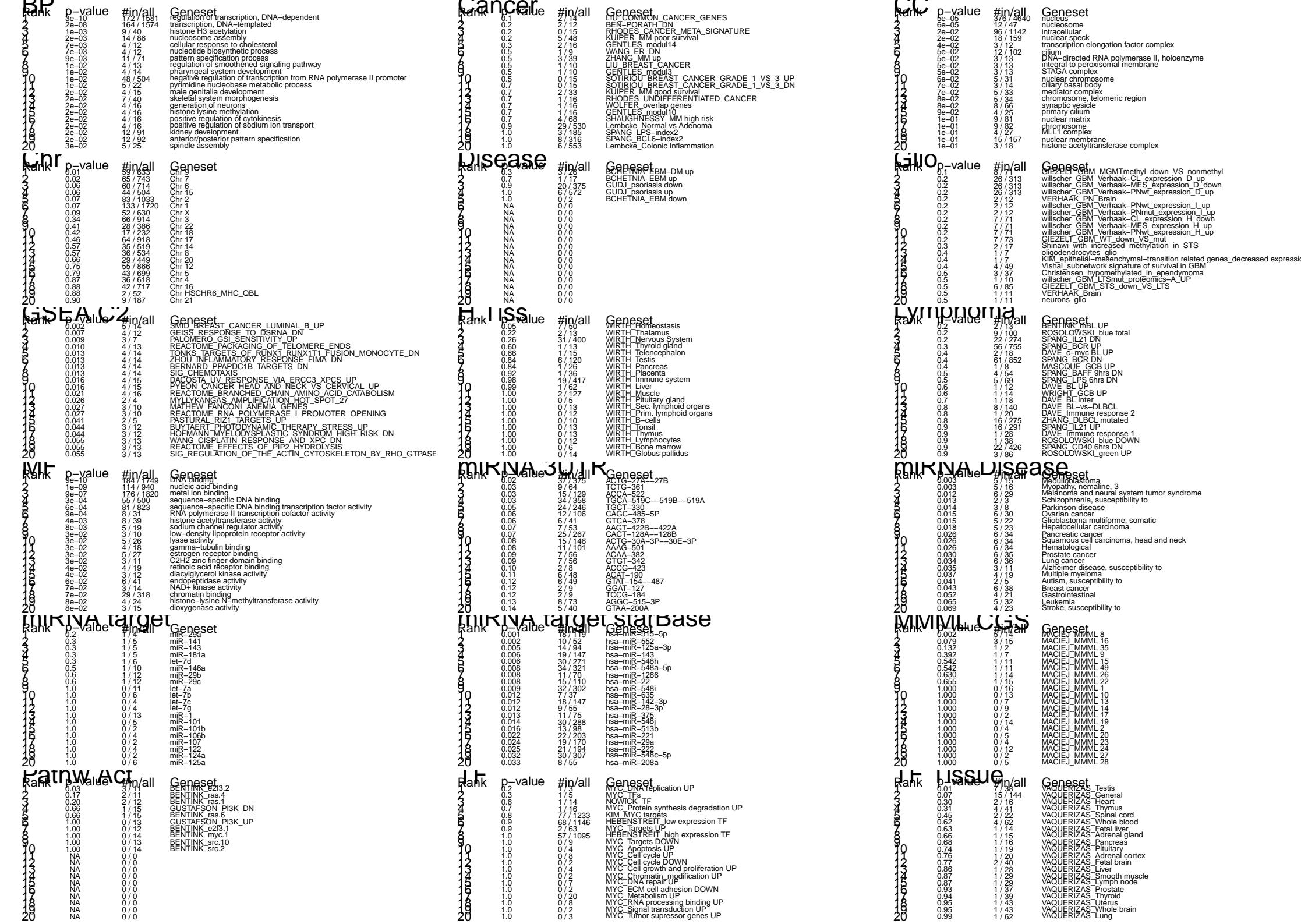
Rank	ID	max e	min e	Description	Symbol
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Rank	ID	max e	min e	Description	Symbol
1	441317	1.61	-0.46	family with sequence similarity 90, member A21, pseudogene	FAM90A2
2	11197	1.42	-0.29	WNT inhibitory factor 1 [Source:HGNC Symbol;Acc:18081]	WIF1
3	2258	1.31	-0.36	fibroblast growth factor 13 [Source:HGNC Symbol;Acc:3670]	FGF13
4	4848	1.25	-0.86	CCR4-NOT transcription complex, subunit 2 [Source:HGNC :	CNOT2
5	341640	1.23	-0.32	FRAS1 related extracellular matrix protein 2 [Source:HGNC :	FREM2
6	100130889	1.2	-0.35	Psoriasis susceptibility 1 candidate 3 (non-protein coding) [S	PSORS10
7	2516	1.17	-0.2	nuclear receptor subfamily 5, group A, member 1 [Source:HG	NR5A1
8	55916	1.11	-0.87	nuclear transport factor 2-like export factor 2 [Source:HGNC	NXT2
9	200916	1.08	-0.33	ribosomal protein L22-like 1 [Source:HGNC Symbol;Acc:276	RPL22L1
10	63908	1.07	-0.63	NAPB N-ethylmaleimide-sensitive factor attachment protein, beta [NAPB
11	95681	1.05	-0.58	centrosomal protein 41kDa [Source:HGNC Symbol;Acc:1237]	CEP41
12	8445	1.04	-0.52	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase	DYRK2
13	4074	1.04	-0.92	mannose-6-phosphate receptor (cation dependent) [Source:	M6PR
14	126859	1.03	-0.33	AXDND1 axonemal dynein light chain domain containing 1 [Source:HG	AXDND1
15	2918	1.01	-0.29	glutamate receptor, metabotropic 8 [Source:HGNC Symbol;A	GRM8
16	728655	1.01	-0.28	hepatocellular carcinoma up-regulated long non-coding RNA	HULC
17	55283	1	-0.53	mucolipin 3 [Source:HGNC Symbol;Acc:13358]	MCOLN3
18	55508	0.99	-0.83	solute carrier family 35, member E3 [Source:HGNC Symbol;A	SLC35E3
19	8995	0.99	-0.27	tumor necrosis factor (ligand) superfamily, member 18 [Sourc	TNFSF18
20	51196	0.98	-0.44	phospholipase C, epsilon 1 [Source:HGNC Symbol;Acc:1717]	PLCE1

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-10	172 / 1581	BP regulation of transcription, DNA-dependent
2	9e-10	184 / 1749	MF DNA binding
3	1e-09	114 / 940	MF nucleic acid binding
4	2e-08	164 / 1574	BP transcription, DNA-templated
5	9e-07	176 / 1820	MF metal ion binding
6	5e-05	376 / 4640	CC nucleus
7	6e-05	12 / 47	CC nucleosome
8	3e-04	55 / 500	MF sequence-specific DNA binding
9	6e-04	81 / 823	MF sequence-specific DNA binding transcription factor activity
10	9e-04	8 / 31	MF RNA polymerase II transcription cofactor activity
11	1e-03	18 / 119	miRN hsa-miR-515-5p
12	1e-03	9 / 40	BP histone H3 acetylation
13	2e-03	5 / 14	MMM MACIEJ_MMML_B
14	2e-03	5 / 14	GSE/ SMID_BREAST_CANCER_LUMINAL_B_UP
15	2e-03	14 / 86	BP nucleosome assembly
16	2e-03	10 / 52	miRN hsa-miR-552
17	3e-03	5 / 15	miRN Medulloblastoma
18	3e-03	5 / 16	miRN Myopathy, nemaline, 3
19	4e-03	8 / 39	MF histone acetyltransferase activity
20	5e-03	14 / 94	miRN hsa-miR-125a-3p
21	6e-03	19 / 147	miRN hsa-miR-143
22	6e-03	30 / 271	miRN hsa-miR-548h
23	7e-03	4 / 12	BP cellular response to cholesterol
24	7e-03	4 / 12	BP nucleotide biosynthetic process
25	7e-03	4 / 12	GSE/ GEISS_RESPONSE_TO_DSRNA_DN
26	8e-03	34 / 321	miRN hsa-miR-548a-5p
27	8e-03	11 / 70	miRN hsa-miR-1266
28	8e-03	5 / 19	MF sodium channel regulator activity
29	8e-03	15 / 110	miRN hsa-miR-22
30	9e-03	11 / 71	BP pattern specification process
31	9e-03	3 / 7	GSE/ PALOMERO_GSI_SENSITIVITY_UP
32	9e-03	32 / 302	miRN hsa-miR-548i
33	1e-02	4 / 13	BP regulation of smoothed signaling pathway
34	1e-02	4 / 13	GSE/ REACTOME_PACKAGING_OF_TELOMERE_ENDS
35	1e-02	59 / 633	Chr Chr 9
36	1e-02	7 / 37	miRN hsa-miR-635
37	1e-02	18 / 147	miRN hsa-miR-142-3p
38	1e-02	9 / 55	miRN hsa-miR-28-3p
39	1e-02	6 / 29	miRN Melanoma and neural system tumor syndrome
40	1e-02	4 / 14	BP pharyngeal system development





K-Means Cluster

Spot Summary: K

metagenes = 47
genes = 513

<r> metagenes = 0.91

<r> genes = 0.22

beta: r2= 8.62 / log p= -Inf

samples with spot = 36 (13.1 %)

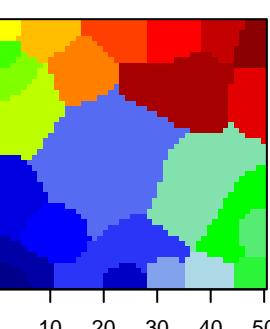
Atypical : 14 (18.9 %)

Classical : 14 (43.8 %)

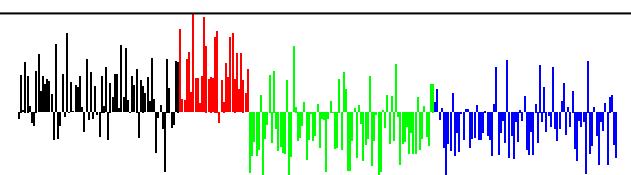
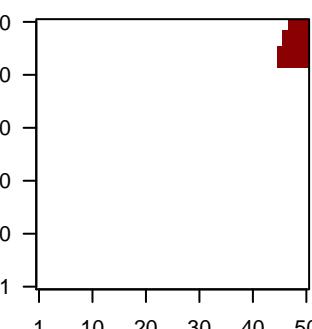
Mesenchymal : 3 (3.5 %)

Basal : 5 (6 %)

Overview Map



Spot

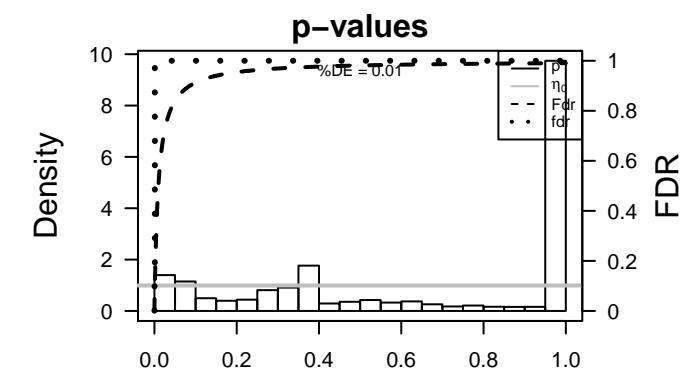


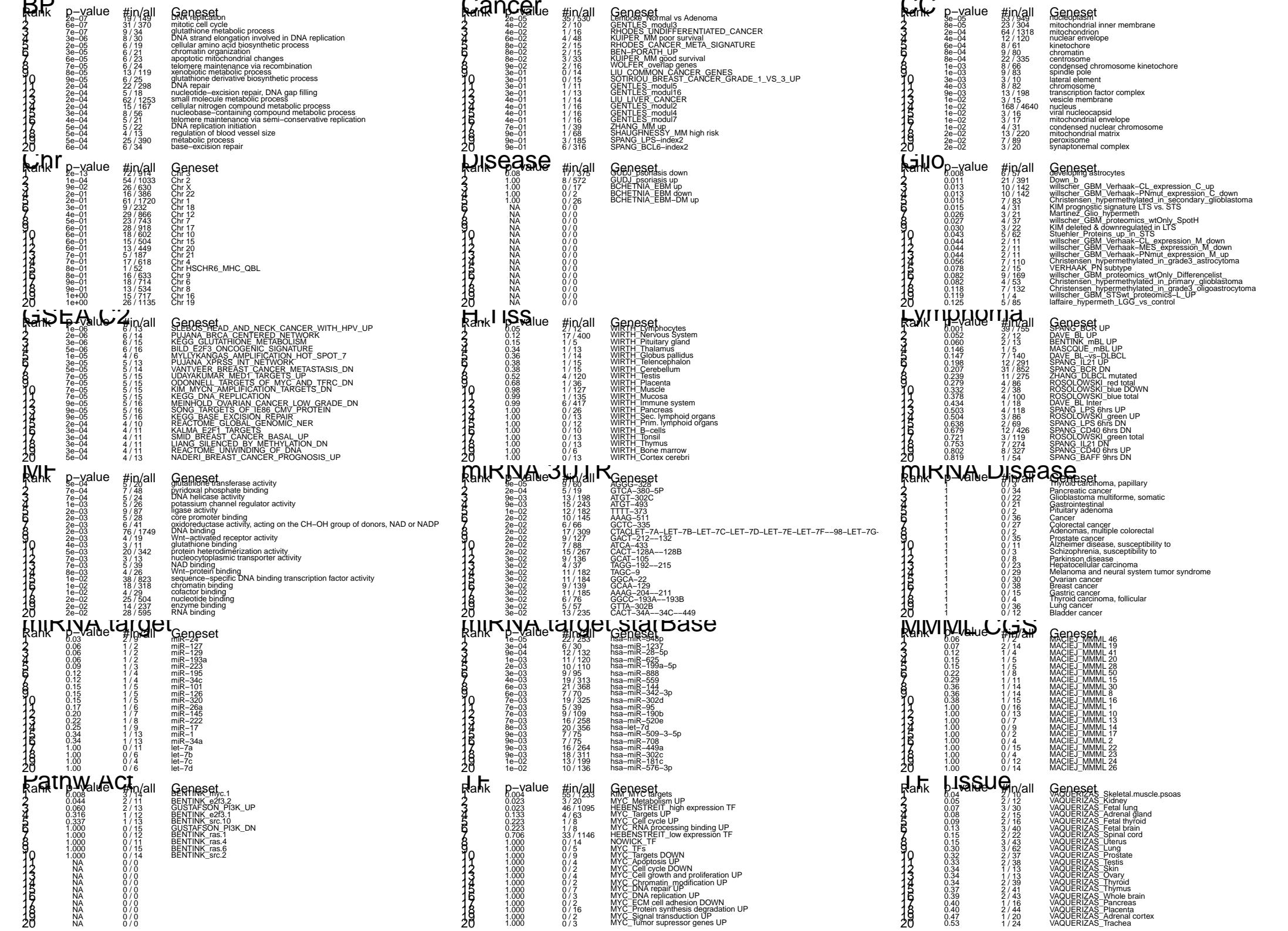
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol
1	4922	5.09	-1.67	0.69	NTS	neurotensin [Source:HGNC Symbol;Acc:8038]
2	2938	3.6	-1.05	0.56	GSTA2	glutathione S-transferase alpha 2 [Source:HGNC Symbol;Acc:8038]
3	3880	3.42	-4.05	0.56	KRT19	keratin 19 [Source:HGNC Symbol;Acc:6436]
4	3866	3.23	-3.16	0.46	KRT15	keratin 15 [Source:HGNC Symbol;Acc:6421]
5	1056	3.22	-1.53	0.5	CEL	carboxyl ester lipase [Source:HGNC Symbol;Acc:1848]
6	7345	3	-1.41	0.43	UCHL1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterases)
7	216	2.99	-2.41	0.63	ALDH1A1	aldehyde dehydrogenase 1 family, member A1 [Source:HGNC Symbol;Acc:1848]
8	83888	2.98	-0.56	0.37	FGFBP2	fibroblast growth factor binding protein 2 [Source:HGNC Symbol;Acc:1848]
9	154664	2.78	-1.49	0.67	ABCA13	ATP-binding cassette, sub-family A (ABC1), member 13 [Source:HGNC Symbol;Acc:1848]
10	2944	2.69	-1.57	0.43	GSTM1	glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:4]
11	339512	2.68	-1.34	0.5	C1orf110	chromosome 1 open reading frame 110 [Source:HGNC Symbol;Acc:1848]
12	3856	2.63	-2.21	0.46	KRT8P3	keratin 8 pseudogene 3 [Source:HGNC Symbol;Acc:31056]
13	26047	2.62	-1.61	0.31	CNTNAP2	contactin associated protein-like 2 [Source:HGNC Symbol;Acc:1848]
14	2719	2.58	-0.74	0.53	GPC3	glycan 3 [Source:HGNC Symbol;Acc:4451]
15	84171	2.55	-1.19	0.37	LOXL4	lysyl oxidase-like 4 [Source:HGNC Symbol;Acc:17171]
16	11166	2.55	-1.98	0.68	SOX21	SRY (sex determining region Y)-box 21 [Source:HGNC Symbol;Acc:1848]
17	4072	2.5	-2.3	0.71	EPCAM	epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:1848]
18	139728	2.48	-1.61	0.51	PNCK	pregnancy up-regulated nonubiquitous CaM kinase [Source:HGNC Symbol;Acc:1848]
19	4915	2.4	-1.19	0.75	NTRK2	neurotrophic tyrosine kinase, receptor, type 2 [Source:HGNC Symbol;Acc:1848]
20	2947	2.4	-0.99	0.43	GSTM3	glutathione S-transferase mu 3 (brain) [Source:HGNC Symbol;Acc:4]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-13	72 / 914	Chr Chr 3
2	2e-07	19 / 149	BP DNA replication
3	6e-07	31 / 370	BP mitotic cell cycle
4	7e-07	9 / 34	BP glutathione metabolic process
5	1e-06	6 / 13	GSEA SLEBOS_HEAD_AND_NECK_CANCER_WITH HPV_UP
6	2e-06	6 / 14	GSEA PUJANA_BRCA_CENTERED_NETWORK
7	3e-06	8 / 30	BP DNA strand elongation involved in DNA replication
8	3e-06	6 / 15	GSEA KEGG GLUTATHIONE_METABOLISM
9	5e-06	6 / 16	GSEA BILD_E2F3_ONCOGENIC_SIGNATURE
10	1e-05	4 / 6	GSEA MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_7
11	1e-05	22 / 253	miRN hsa-miR-548p
12	2e-05	6 / 19	BP cellular amino acid biosynthetic process
13	2e-05	35 / 530	Cancl Lembeck_Normal vs Adenoma
14	3e-05	53 / 949	CC nucleoplasm
15	3e-05	5 / 13	GSEA PUJANA_XPRSS_INT_NETWORK
16	3e-05	6 / 21	BP chromatin organization
17	5e-05	5 / 14	GSEA VANTVEER_BREAST_CANCER_METASTASIS_DN
18	6e-05	6 / 23	BP apoptotic mitochondrial changes
19	7e-05	5 / 15	GSEA UDAYAKUMAR_MED1_TARGETS_UP
20	7e-05	5 / 15	GSEA ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN
21	7e-05	5 / 15	GSEA KIM_MYCN_AMPLIFICATION_TARGETS_DN
22	7e-05	5 / 15	GSEA KEGG_DNA_REPLICATION
23	7e-05	6 / 24	BP telomere maintenance via recombination
24	8e-05	23 / 304	CC mitochondrial inner membrane
25	8e-05	13 / 119	BP xenobiotic metabolic process
26	9e-05	9 / 60	miRN AGGG-328
27	9e-05	5 / 16	GSEA MEINHOLD_OVARIAN_CANCER_LOW_GRADE_DN
28	9e-05	5 / 16	GSEA SONG_TARGETS_OF_IIE86_CMV_PROTEIN
29	9e-05	5 / 16	GSEA KEGG_BASE_EXCISION_REPAIR
30	9e-05	6 / 25	BP glutathione derivative biosynthetic process
31	1e-04	54 / 1033	Chr Chr 2
32	2e-04	4 / 10	GSEA REACTOME_GLOBAL_GENOMIC_NER
33	2e-04	22 / 298	BP DNA repair
34	2e-04	5 / 18	BP nucleotide-excision repair, DNA gap filling
35	2e-04	62 / 1253	BP small molecule metabolic process
36	2e-04	15 / 167	BP cellular nitrogen compound metabolic process
37	2e-04	5 / 19	miRN GTCA-380-5P
38	2e-04	64 / 1318	CC mitochondrion
39	3e-04	4 / 11	GSEA KALMA_E2F1_TARGETS
40	3e-04	4 / 11	GSEA SMID_BREAST_CANCER_BASAL_UP





K-Means Cluster

Spot Summary: L

metagenes = 27

genes = 418

$\langle r \rangle$ metagenes = 0.93

$\langle r \rangle$ genes = 0.34

beta: $r^2 = 23.03 / \log p = -\infty$

samples with spot = 60 (21.8 %)

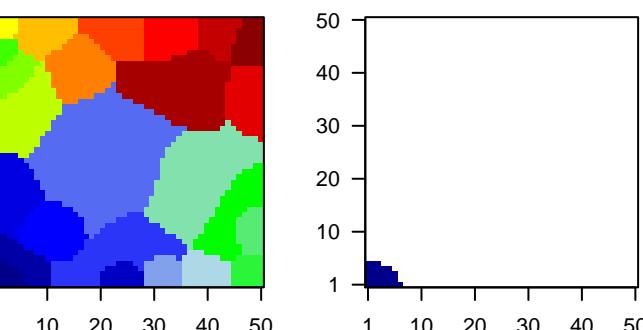
Atypical : 8 (10.8 %)

Classical : 2 (6.2 %)

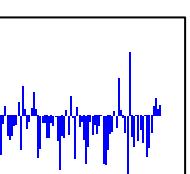
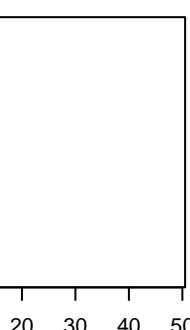
Mesenchymal : 46 (54.1 %)

Basal : 4 (4.8 %)

Overview Map



Spot



Spot Genelist

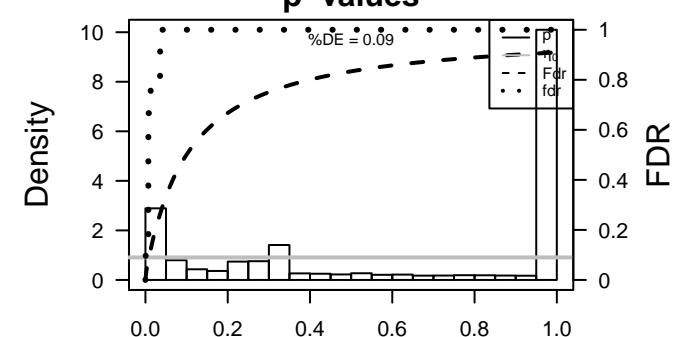
Rank	ID	max e	min e	r	Description	Symbol
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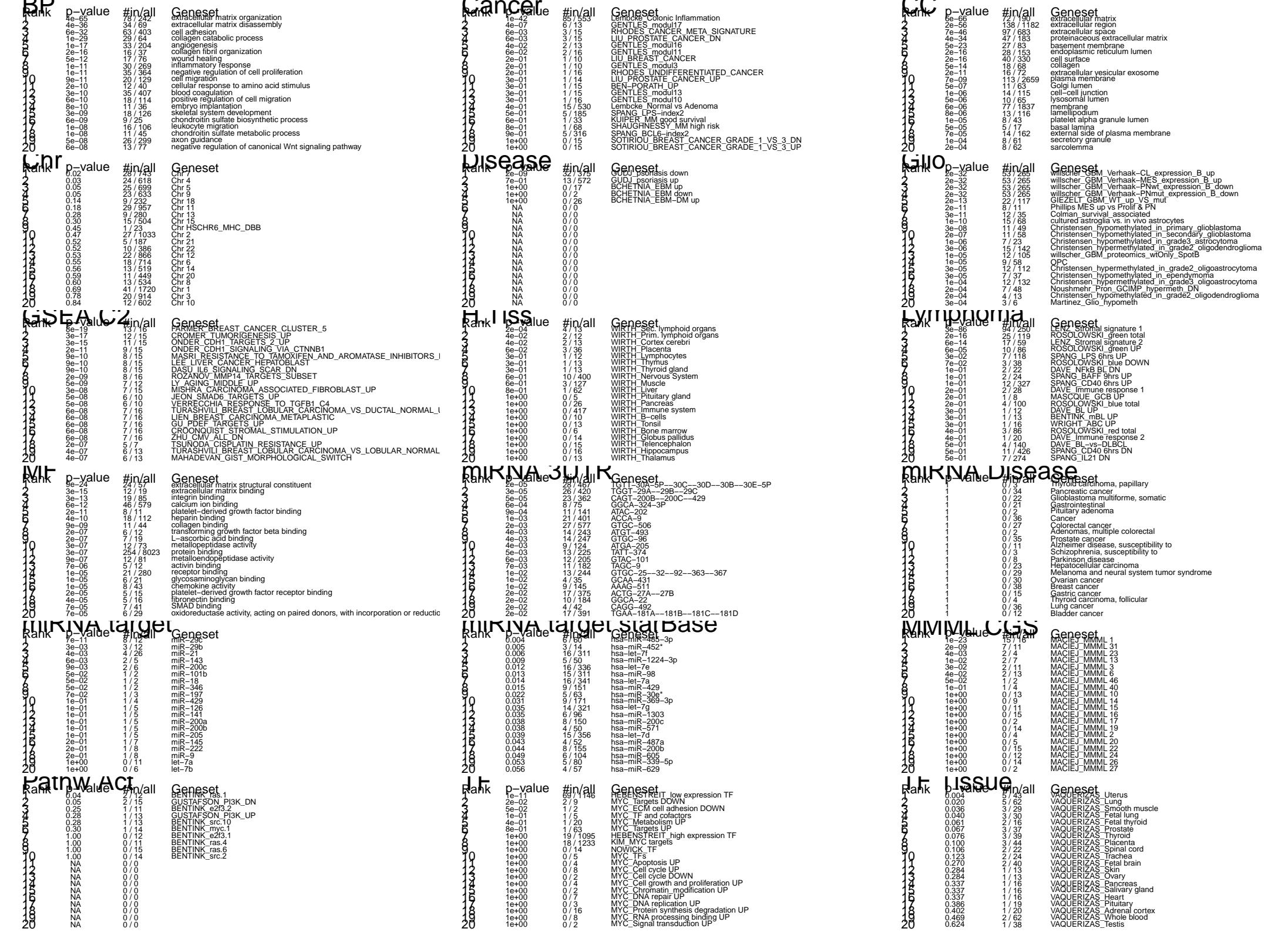
1	4319	4.09	-2.68	0.57	MMP10 matrix metalloproteinase 10 (stromelysin 2) [Source:HGNC Symbol;Acc:6125]	
2	12	3.84	-2.36	0.4	RP11-986E7.7	
3	3040	3.64	-2.76	0.32	HBA2 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]	
4	401138	3.58	-1.16	0.28	AMTN amelotin [Source:HGNC Symbol;Acc:33188]	
5	6696	3.4	-1.67	0.39	SPP1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:1125]	
6	4316	3.39	-2.29	0.41	MMP7 matrix metalloproteinase 7 (matriLyisin, uterine) [Source:HGNC Symbol;Acc:1126]	
7	387914	3.32	-1.5	0.35	SHISA2 shisa family member 2 [Source:HGNC Symbol;Acc:20366]	
8	4322	3.32	-1.16	0.59	MMP13 matrix metalloproteinase 13 (collagenase 3) [Source:HGNC Symbol;Acc:1127]	
9	4314	3.31	-3.02	0.71	MMP3 matrix metalloproteinase 3 (stromelysin 1, progelatinase) [Source:HGNC Symbol;Acc:1128]	
10	3569	3.28	-1.5	0.62	IL6 interleukin 6 (interferon, beta 2) [Source:HGNC Symbol;Acc:1129]	
11	3043	3.2	-3.29	0.32	HBB hemoglobin, beta [Source:HGNC Symbol;Acc:4827]	
12	3039	3.15	-1.75	0.3	HBA2 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]	
13	6374	3.14	-0.9	0.59	CXCL5 chemokine (C-X-C motif) ligand 5 [Source:HGNC Symbol;Acc:1130]	
14	3553	3.13	-2.37	0.54	IL1B interleukin 1, beta [Source:HGNC Symbol;Acc:5992]	
15	414062	3.13	-2.13	0.52	CCL3L3 chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbol;Acc:1131]	
16	6372	3.07	-1.65	0.49	CXCL6 chemokine (C-X-C motif) ligand 6 [Source:HGNC Symbol;Acc:1132]	
17	55107	3.05	-2.27	0.44	ANO1 anoctamin 1, calcium activated chloride channel [Source:HGNC Symbol;Acc:1133]	
18	2201	2.99	-1.35	0.29	FBN2 fibrillin 2 [Source:HGNC Symbol;Acc:3604]	
19	3576	2.96	-2.98	0.58	IL8 interleukin 8 [Source:HGNC Symbol;Acc:6025]	
20	4320	2.88	-1.94	0.49	MMP11 matrix metalloproteinase 11 (stromelysin 3) [Source:HGNC Symbol;Acc:1134]	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-86	94 / 250	Lymp LENZ_Stromal signature 1
2	6e-66	72 / 190	CC extracellular matrix
3	4e-65	78 / 242	BP extracellular matrix organization
4	2e-56	138 / 1182	CC extracellular region
5	7e-46	97 / 683	CC extracellular space
6	1e-42	85 / 553	Cancer Lembcke_Colonie Inflammation
7	4e-36	34 / 69	BP extracellular matrix disassembly
8	4e-34	47 / 183	CC proteoglycan extracellular matrix
9	2e-32	53 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
10	2e-32	53 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
11	2e-32	53 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
12	2e-32	53 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
13	6e-32	63 / 403	BP cell adhesion
14	1e-29	29 / 64	BP collagen catabolic process
15	9e-24	24 / 57	MF extracellular matrix structural constituent
16	1e-23	15 / 16	MMM MACIEJ_MMML 1
17	5e-23	27 / 83	CC basement membrane
18	8e-19	13 / 16	GSE FARMER_BREAST_CANCER_CLUSTER_5
19	1e-17	33 / 204	BP angiogenesis
20	3e-17	12 / 15	GSE CROMER_TUMORIGENESIS_UP
21	2e-16	28 / 153	CC endoplasmic reticulum lumen
22	2e-16	40 / 330	CC cell surface
23	2e-16	16 / 37	BP collagen fibril organization
24	2e-16	25 / 119	Lymp ROSOLOWSKI_green total
25	3e-15	12 / 19	MF extracellular matrix binding
26	3e-15	11 / 15	GSE ONDER_CDH1_TARGETS_2_UP
27	5e-14	18 / 68	CC collagen
28	6e-14	17 / 59	Lymp LENZ_Stromal signature 2
29	2e-13	22 / 117	Glio GIEZELT_GBM_WT_up_VS_mut
30	3e-13	19 / 85	MF integrin binding
31	5e-12	17 / 76	BP wound healing
32	6e-12	46 / 579	MF calcium ion binding
33	1e-11	30 / 269	BP inflammatory response
34	1e-11	69 / 1146	TF HEBENSTREIT_low expression TF
35	1e-11	35 / 364	BP negative regulation of cell proliferation
36	2e-11	9 / 15	GSE ONDER_CDH1_SIGNALING_VIA_CTNNB1
37	2e-11	8 / 11	MF platelet-derived growth factor binding
38	2e-11	8 / 11	Glio Phillips MES up vs Prolif & PN
39	2e-11	16 / 72	CC extracellular vesicular exosome
40	3e-11	12 / 35	Glio Colman_survival_associated

p-values





K-Means Cluster

Spot Summary: M

metagenes = 60
genes = 619

$\langle r \rangle$ metagenes = 0.77

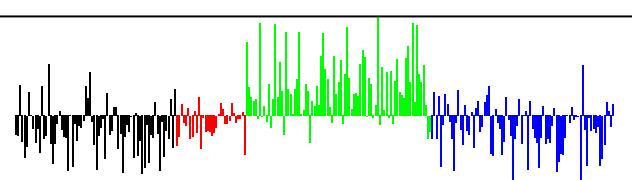
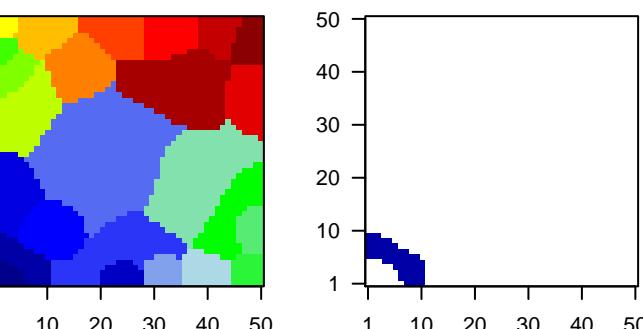
$\langle r \rangle$ genes = 0.18

beta: $r^2 = 6.55$ / log p= -Inf

samples with spot = 18 (6.5 %)

Mesenchymal : 18 (21.2 %)

Overview Map



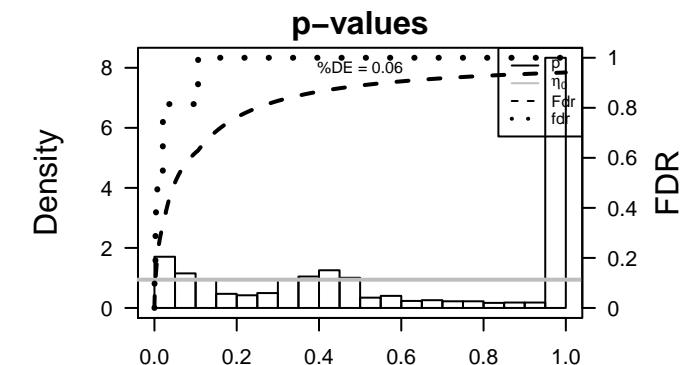
Spot Genelist

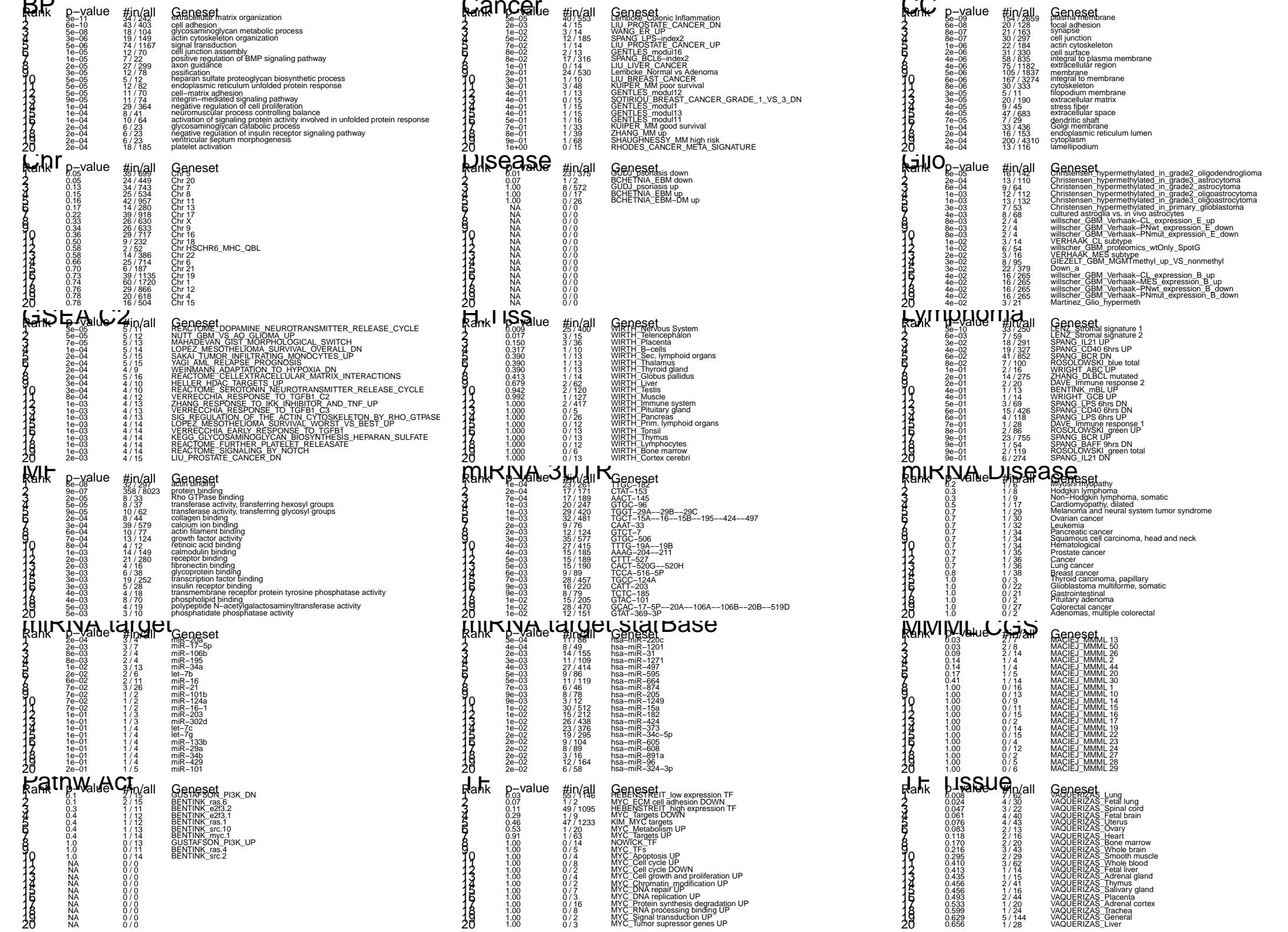
Rank	ID	max e	min e	r	Description	Symbol
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1	25805	2.63	-1.74	0.29	BAMBI	BMP and activin membrane-bound inhibitor [Source:HGNC Symbol;Acc:427]
2	1469	2.51	-0.85	0.22	CST1	cystatin SN [Source:HGNC Symbol;Acc:2473]
3	3486	2.44	-2.35	0.27	IGFBP3	insulin-like growth factor binding protein 3 [Source:HGNC Symbol;Acc:1383]
4	768	2.41	-1.33	0.42	CA9	carbonic anhydrase IX [Source:HGNC Symbol;Acc:1383]
5	2239	2.29	-0.94	0.43	GPC4	glypican 4 [Source:HGNC Symbol;Acc:4452]
6	595	2.23	-2.16	0.34	CCND1	cyclin D1 [Source:HGNC Symbol;Acc:1582]
7	8614	2.16	-1.3	0.48	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:11374]
8	1021	2.11	-1.65	0.56	CDK6	cyclin-dependent kinase 6 [Source:HGNC Symbol;Acc:1777]
9	55603	2.11	-1.76	0.38	FAM46A	family with sequence similarity 46, member A [Source:HGNC Symbol;Acc:11374]
10	3310	2.09	-0.79	0.36	HSPA6	heat shock 70kDa protein 6 (HSP70B) [Source:HGNC Symbol;Acc:11374]
11	284111	2.07	-0.78	0.35	SLC13A5	absolute carrier family 13 (sodium-dependent citrate transporter)
12	85409	2.06	-1.76	0.28	NKD2	naked cuticle homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:11374]
13	3311	2	-0.73	0.37	HSPA7	heat shock 70kDa protein 7 (HSP70B) [Source:HGNC Symbol;Acc:11374]
14	10644	1.94	-2.12	0.48	IGF2BP2	insulin-like growth factor 2 mRNA binding protein 2 [Source:HGNC Symbol;Acc:11374]
15	6349	1.91	-0.69	0.55	CCL3L3	chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbol;Acc:11374]
16	5473	1.9	-0.61	0.39	PPBP	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)
17	22943	1.89	-0.93	0.45	DKK1	dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC Symbol;Acc:11374]
18	8632	1.83	-0.73	0.35	DNAH17	dynein, axonemal, heavy chain 17 [Source:HGNC Symbol;Acc:11374]
19	2296	1.83	-1.35	0.35	FOXC1	forkhead box C1 [Source:HGNC Symbol;Acc:3800]
20	114335	1.82	-0.83	0.64	CGB	chorionic gonadotropin, beta polypeptide [Source:HGNC Symbol;Acc:11374]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-11	34 / 242	BP extracellular matrix organization
2	3e-10	33 / 250	Lymph LENZ_Stromal signature 1
3	6e-10	43 / 403	BP cell adhesion
4	5e-09	154 / 2659	CC plasma membrane
5	5e-08	18 / 104	BP glycosaminoglycan metabolic process
6	6e-08	20 / 128	CC focal adhesion
7	8e-08	32 / 297	MF actin binding
8	8e-07	21 / 163	CC synapse
9	8e-07	30 / 297	CC cell junction
10	9e-07	358 / 8023	MF protein binding
11	1e-06	22 / 184	CC actin cytoskeleton
12	2e-06	31 / 330	CC cell surface
13	3e-06	19 / 149	BP actin cytoskeleton organization
14	4e-06	58 / 835	CC integral to plasma membrane
15	4e-06	75 / 1182	CC extracellular region
16	5e-06	74 / 1167	BP signal transduction
17	5e-06	105 / 1837	CC membrane
18	6e-06	167 / 3274	CC integral to membrane
19	8e-06	30 / 333	CC cytoskeleton
20	1e-05	12 / 70	BP cell junction assembly
21	1e-05	7 / 22	BP positive regulation of BMP signaling pathway
22	2e-05	8 / 33	MF Rho GTPase binding
23	2e-05	27 / 299	BP axon guidance
24	3e-05	5 / 11	CC filopodium membrane
25	3e-05	5 / 11	GSE_1 REACTOME_DOPAMINE_NEUROTRANSMITTER_RELEASE_CYCLE
26	3e-05	20 / 190	CC extracellular matrix
27	3e-05	12 / 78	BP ossification
28	4e-05	9 / 45	CC stress fiber
29	4e-05	47 / 683	CC extracellular space
30	5e-05	5 / 12	BP heparan sulfate proteoglycan biosynthetic process
31	5e-05	5 / 12	GSE_1 NUTT_GBM_VS_AO_GLIOMA_UP
32	5e-05	12 / 82	BP endoplasmic reticulum unfolded protein response
33	5e-05	40 / 553	Cancer Lembcke_Colonic Inflammation
34	5e-05	11 / 70	BP cell-matrix adhesion
35	5e-05	8 / 37	MF transferase activity, transferring hexosyl groups
36	7e-05	5 / 13	GSE_1 MAHADEVAN_GIST_MORPHOLOGICAL_SWITCH
37	7e-05	7 / 29	CC dendritic shaft
38	8e-05	16 / 142	Glio Christensen_hypermethylated_in_grade2_oligodendrogloma
39	9e-05	11 / 74	BP integrin-mediated signaling pathway
40	9e-05	10 / 62	MF transferase activity, transferring glycosyl groups





K-Means Cluster

Spot Summary: N

metagenes = 115
genes = 908

$\langle r \rangle$ metagenes = 0.85

$\langle r \rangle$ genes = 0.2

beta: $r^2 = 4.03$ / log p= -Inf

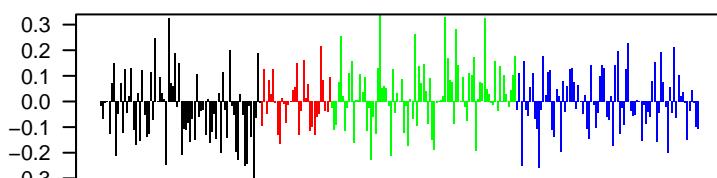
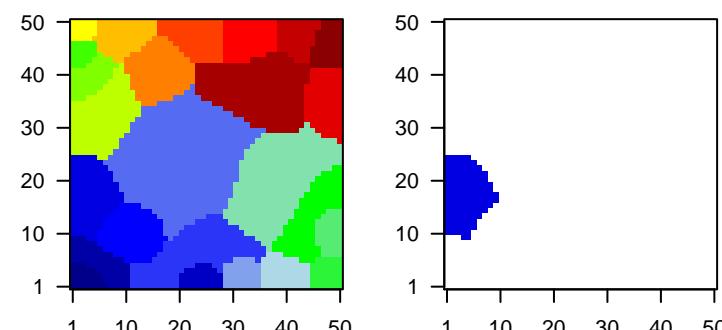
samples with spot = 9 (3.3 %)

Atypical : 2 (2.7 %)

Mesenchymal : 6 (7.1 %)

Basal : 1 (1.2 %)

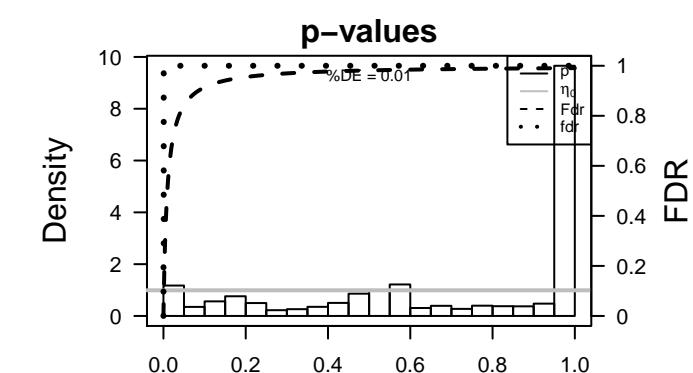
Overview Map

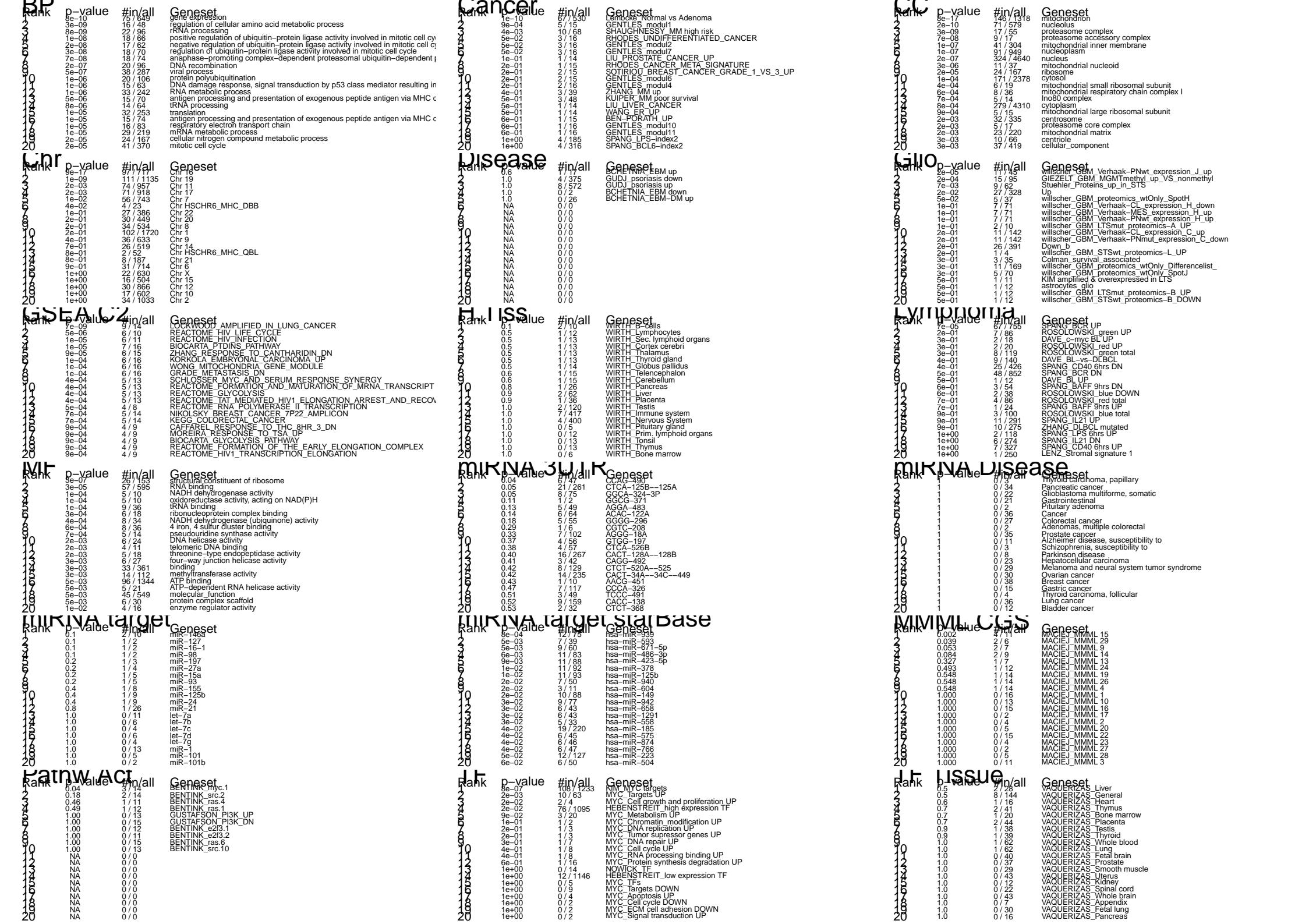


Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset	
1	283869	2.84	-1.53	0.53	NPW	neuropeptide W [Source:HGNC Symbol;Acc:30509]	1	8e-17	146 / 1318	CC	mitochondrion
2	4495	2.82	-1.79	0.21	MT1G	metallothionein 1G [Source:HGNC Symbol;Acc:7399]	2	9e-17	97 / 717	Chr	Chr 16
3	220064	2.61	-1.08	0.48	ORAOV1	oral cancer overexpressed 1 [Source:HGNC Symbol;Acc:175]	3	1e-10	67 / 530	Canc	Lembcke_Normal vs Adenoma
4	10202	2.48	-0.58	0.41	DHRS2	dehydrogenase/reductase (SDR family) member 2 [Source:HGNC Symbol;Acc:175]	4	2e-10	71 / 579	CC	nucleolus
5	284085	2.29	-1.64	0.42	KRT18P5	keratin 18 pseudogene 55 [Source:HGNC Symbol;Acc:26874]	5	8e-10	75 / 649	BP	gene expression
6	131076	2.28	-1.53	0.33	CCDC58	coiled-coil domain containing 58 [Source:HGNC Symbol;Acc:417]	6	1e-09	111 / 1135	Chr	Chr 19
7	51083	2.28	-0.81	0.5	GAL	galanin/GMAP prepropeptide [Source:HGNC Symbol;Acc:417]	7	3e-09	16 / 48	BP	regulation of cellular amino acid metabolic process
8	8772	2.18	-1.29	0.52	FADD	Fas (TNFRSF6)-associated via death domain [Source:HGNC Symbol;Acc:175]	8	3e-09	17 / 55	CC	proteasome complex
9	51702	2.13	-1.03	0.26	PADI3	peptidyl arginine deiminase, type III [Source:HGNC Symbol;Acc:175]	9	7e-09	9 / 14	GSE/	LOCKWOOD_AMPLIFIED_IN_LUNG_CANCER
10	3006	2.13	-1.48	0.19	HIST1H1B	histone cluster 1, H1c [Source:HGNC Symbol;Acc:4716]	10	8e-09	22 / 96	BP	rRNA processing
11	1152	2.07	-1.8	0.37	CKB	creatine kinase, brain [Source:HGNC Symbol;Acc:1991]	11	1e-08	18 / 66	BP	positive regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
12	219931	2.01	-0.93	0.56	TPCN2	two pore segment channel 2 [Source:HGNC Symbol;Acc:208]	12	2e-08	17 / 62	BP	negative regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
13	51373	1.97	-1.11	0.64	MRPS172BS	ribosomal protein S17, mitochondrial; HCG1984214, isoform 1 [Source:HGNC Symbol;Acc:175]	13	3e-08	18 / 70	BP	regulation of ubiquitin-protein ligase activity involved in mitotic cell cycle
14	2017	1.86	-1.24	0.42	CTTN	cortactin [Source:HGNC Symbol;Acc:3338]	14	7e-08	18 / 74	BP	anaphase-promoting complex-dependent proteasomal ubiquitin-dependent proteolysis
15	219927	1.84	-0.94	0.54	MRPL21	mitochondrial ribosomal protein L21 [Source:HGNC Symbol;Acc:175]	15	7e-08	9 / 17	CC	proteasome accessory complex
16	26579	1.7	-0.65	0.22	MYEOV	myeloma overexpressed [Source:HGNC Symbol;Acc:7563]	16	1e-07	41 / 304	CC	mitochondrial inner membrane
17	2821	1.69	-0.94	0.44	GPI	glucose-6-phosphate isomerase [Source:HGNC Symbol;Acc:175]	17	1e-07	91 / 949	CC	nucleoplasm
18	23246	1.68	-1.14	0.75	BOP1	block of proliferation 1 [Source:HGNC Symbol;Acc:15519]	18	2e-07	324 / 4640	CC	nucleus
19	93273	1.67	-0.94	0.31	LEMD1	LEM domain containing 1 [Source:HGNC Symbol;Acc:18725]	19	2e-07	20 / 96	BP	DNA recombination
20	230	1.64	-1.33	0.36	ALDOC	aldolase C, fructose-bisphosphate [Source:HGNC Symbol;Acc:175]	20	3e-07	26 / 153	MF	structural constituent of ribosome
							21	5e-07	38 / 287	BP	viral process
							22	8e-07	108 / 1233	TF	KIM_MYC targets
							23	1e-06	20 / 106	BP	protein polyubiquitination
							24	1e-06	15 / 63	BP	DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest
							25	1e-06	33 / 242	BP	RNA metabolic process
							26	3e-06	11 / 37	CC	mitochondrial nucleoid
							27	5e-06	6 / 10	GSE/	REACTOME_HIV_LIFE_CYCLE
							28	5e-06	15 / 70	BP	antigen processing and presentation of exogenous peptide antigen via MHC class I pathway
							29	8e-06	14 / 64	BP	tRNA processing
							30	1e-05	32 / 253	BP	translation
							31	1e-05	15 / 74	BP	antigen processing and presentation of exogenous peptide antigen via MHC class II pathway
							32	1e-05	6 / 11	GSE/	REACTOME_HIV_INFECTON
							33	1e-05	16 / 83	BP	respiratory electron transport chain
							34	1e-05	29 / 219	BP	mRNA metabolic process
							35	1e-05	7 / 16	GSE/	BIOCARTA_PTDXNS_PATHWAY
							36	2e-05	24 / 167	BP	cellular nitrogen compound metabolic process
							37	2e-05	24 / 167	CC	ribosome
							38	2e-05	41 / 370	BP	mitotic cell cycle
							39	2e-05	7 / 17	BP	RNA modification
							40	2e-05	35 / 298	BP	DNA repair

Geneset Overrepresentation





K-Means Cluster

Spot Summary: O

metagenes = 33
genes = 203

$\langle r \rangle$ metagenes = 0.94

$\langle r \rangle$ genes = 0.44

beta: $r^2 = 6.52$ / log p= -Inf

samples with spot = 37 (13.5 %)

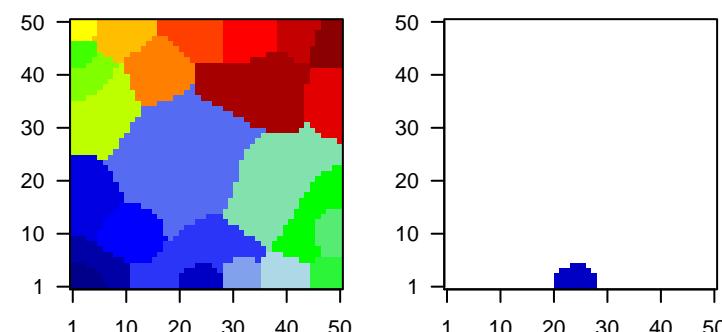
Atypical : 9 (12.2 %)

Classical : 4 (12.5 %)

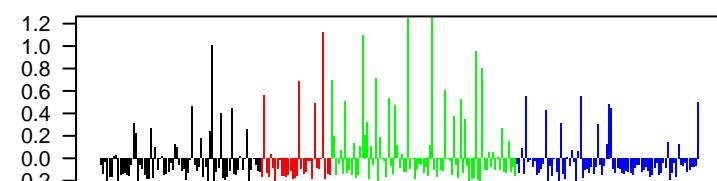
Mesenchymal : 16 (18.8 %)

Basal : 8 (9.5 %)

Overview Map



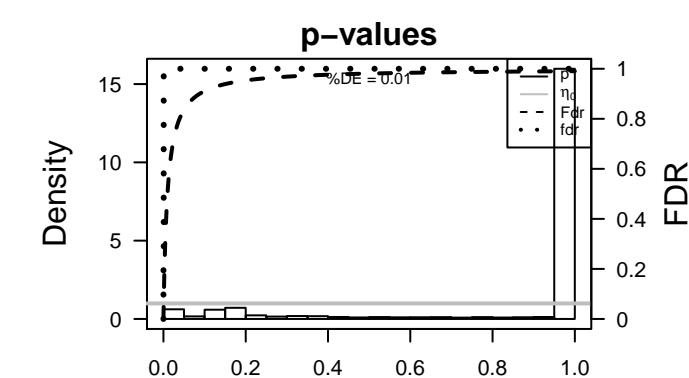
Spot

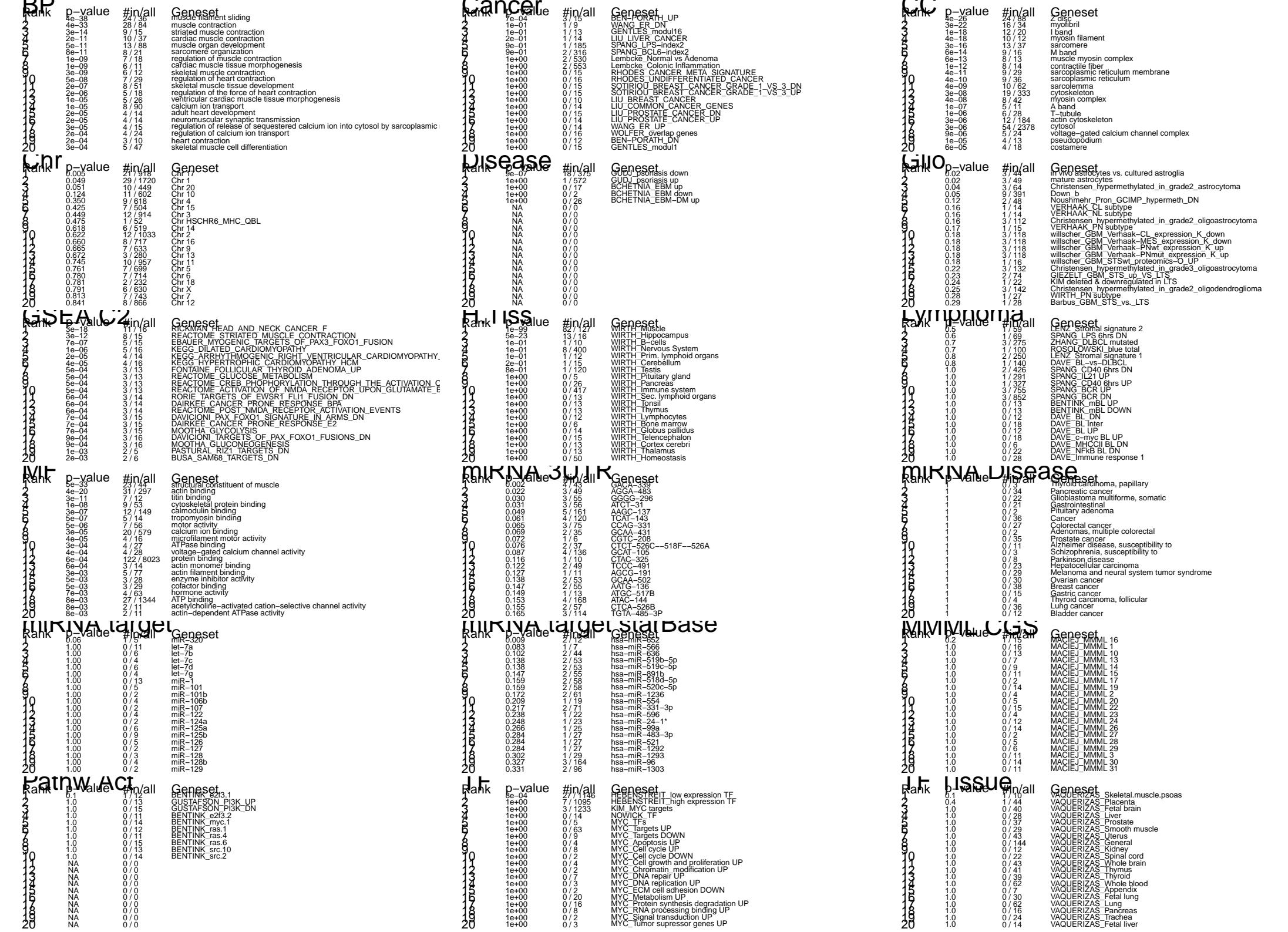


Spot Genelist

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:1216]	ACTA1	1	1e-99	82 / 127	H.Tiss: WIRTH_Muscle
2	6588	4.37	-1.29	0.91	sarcolipin [Source:HGNC Symbol;Acc:11089]	SLN	2	4e-38	24 / 36	BP muscle filament sliding
3	1158	4.27	-0.93	0.93	creatine kinase, muscle [Source:HGNC Symbol;Acc:1994]	CKM	3	4e-33	28 / 84	BP muscle contraction
4	283120	4.19	-2.42	0.34	H19, imprinted maternally expressed transcript (non-protein coding)	H19	4	5e-33	23 / 44	MF structural constituent of muscle
5	4620	3.96	-0.75	0.92	myosin, heavy chain 2, skeletal muscle, adult [Source:HGNC Symbol;Acc:1469]	MYH2	5	4e-26	24 / 88	CC Z disc
6	70	3.94	-1.03	0.89	actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:1469]	ACTC1	6	5e-23	13 / 16	H.Tiss: WIRTH_Hippocampus
7	4151	3.51	-0.93	0.9	myoglobin [Source:HGNC Symbol;Acc:6915]	MB	7	3e-22	16 / 34	CC myofibril
8	10324	3.47	-0.7	0.95	kelch-like family member 41 [Source:HGNC Symbol;Acc:169]	KLHL41	8	4e-20	31 / 297	MF actin binding
9	4625	3.27	-0.73	0.88	myosin, heavy chain 7, cardiac muscle, beta [Source:HGNC Symbol;Acc:1469]	MYH7	9	1e-18	12 / 20	CC I band
10	4633	3.2	-0.7	0.91	myosin, light chain 2, regulatory, cardiac, slow [Source:HGNC Symbol;Acc:1469]	MYL2	10	3e-18	11 / 16	GSE: RICKMAN_HEAD_AND_NECK_CANCER_F
11	7134	3.18	-0.66	0.93	troponin C type 1 (slow) [Source:HGNC Symbol;Acc:11943]	TNNC1	11	4e-18	10 / 12	CC myosin filament
12	7060	3.17	-1.31	0.74	thrombospondin 4 [Source:HGNC Symbol;Acc:11788]	THBS4	12	3e-16	13 / 37	CC sarcomere
13	8557	3.15	-0.57	0.95	titin-cap [Source:HGNC Symbol;Acc:11610]	TCAP	13	3e-14	9 / 15	BP striated muscle contraction
14	4703	3.13	-0.92	0.88	nebulin [Source:HGNC Symbol;Acc:7720]	NEB	14	6e-14	9 / 16	CC M band
15	4608	3.11	-0.84	0.84	myosin binding protein H [Source:HGNC Symbol;Acc:7552]	MYBPH	15	6e-13	8 / 13	CC muscle myosin complex
16	1917	3.04	-1.6	0.56	eukaryotic translation elongation factor 1 alpha 2 [Source:HGNC Symbol;Acc:1469]	EEF1A2	16	1e-12	8 / 14	CC contractile fiber
17	9499	3.03	-0.66	0.93	myotilin [Source:HGNC Symbol;Acc:12399]	MYOT	17	3e-12	8 / 15	GSE: REACTOME_STRIATED_MUSCLE_CONTRACTION
18	2318	3	-1.57	0.81	filamin C, gamma [Source:HGNC Symbol;Acc:3756]	FLNC	18	2e-11	10 / 37	BP cardiac muscle contraction
19	4619	2.82	-0.5	0.88	myosin, heavy chain 1, skeletal muscle, adult [Source:HGNC Symbol;Acc:1469]	MYH1	19	3e-11	7 / 12	MF titin binding
20	4606	2.79	-0.54	0.92	myosin binding protein C, fast type [Source:HGNC Symbol;Acc:1469]	MYBPC2	20	4e-11	9 / 29	CC sarcoplasmic reticulum membrane
							21	5e-11	13 / 88	BP muscle organ development
							22	8e-11	8 / 21	BP sarcomere organization
							23	4e-10	9 / 36	BP sarcoplasmic reticulum
							24	1e-09	7 / 18	BP regulation of muscle contraction
							25	1e-09	6 / 11	BP cardiac muscle tissue morphogenesis
							26	3e-09	6 / 12	BP skeletal muscle contraction
							27	4e-09	10 / 62	CC sarcolemma
							28	1e-08	9 / 53	MF cytoskeletal protein binding
							29	3e-08	19 / 333	CC cytoskeleton
							30	4e-08	8 / 42	CC myosin complex
							31	5e-08	7 / 29	BP regulation of heart contraction
							32	1e-07	5 / 11	CC A band
							33	2e-07	8 / 51	BP skeletal muscle tissue development
							34	3e-07	12 / 149	MF calmodulin binding
							35	5e-07	5 / 14	MF tropomyosin binding
							36	7e-07	5 / 15	GSE: EBBAUER_MYOGENIC_TARGETS_OF_PAX3_FOXO1_FUSION
							37	9e-07	18 / 375	Disease: GUDJ_psoriasis down
							38	1e-06	6 / 28	CC T-tubule
							39	1e-06	5 / 16	GSE: KEGG_DILATED_CARDIOMYOPATHY
							40	2e-06	5 / 18	BP regulation of the force of heart contraction

Geneset Overrepresentation





K-Means Cluster

Spot Summary: P

metagenes = 171

genes = 651

<r> metagenes = 0.71

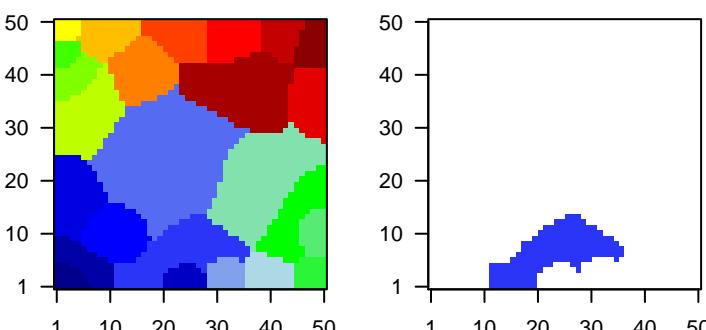
<r> genes = 0.1

beta: r2= 0.9 / log p= -Inf

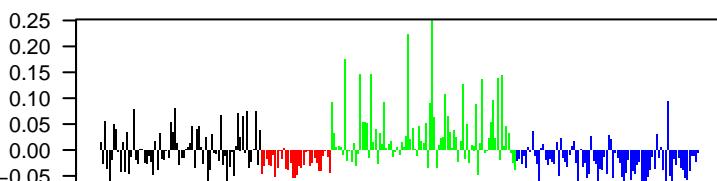
samples with spot = 2 (0.7 %)

Mesenchymal : 2 (2.4 %)

Overview Map



Spot



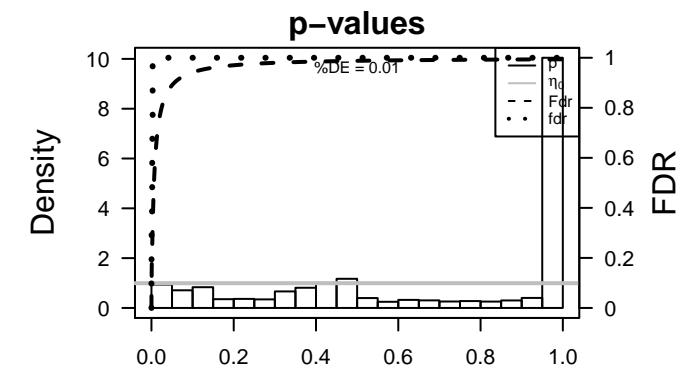
Spot Genelist

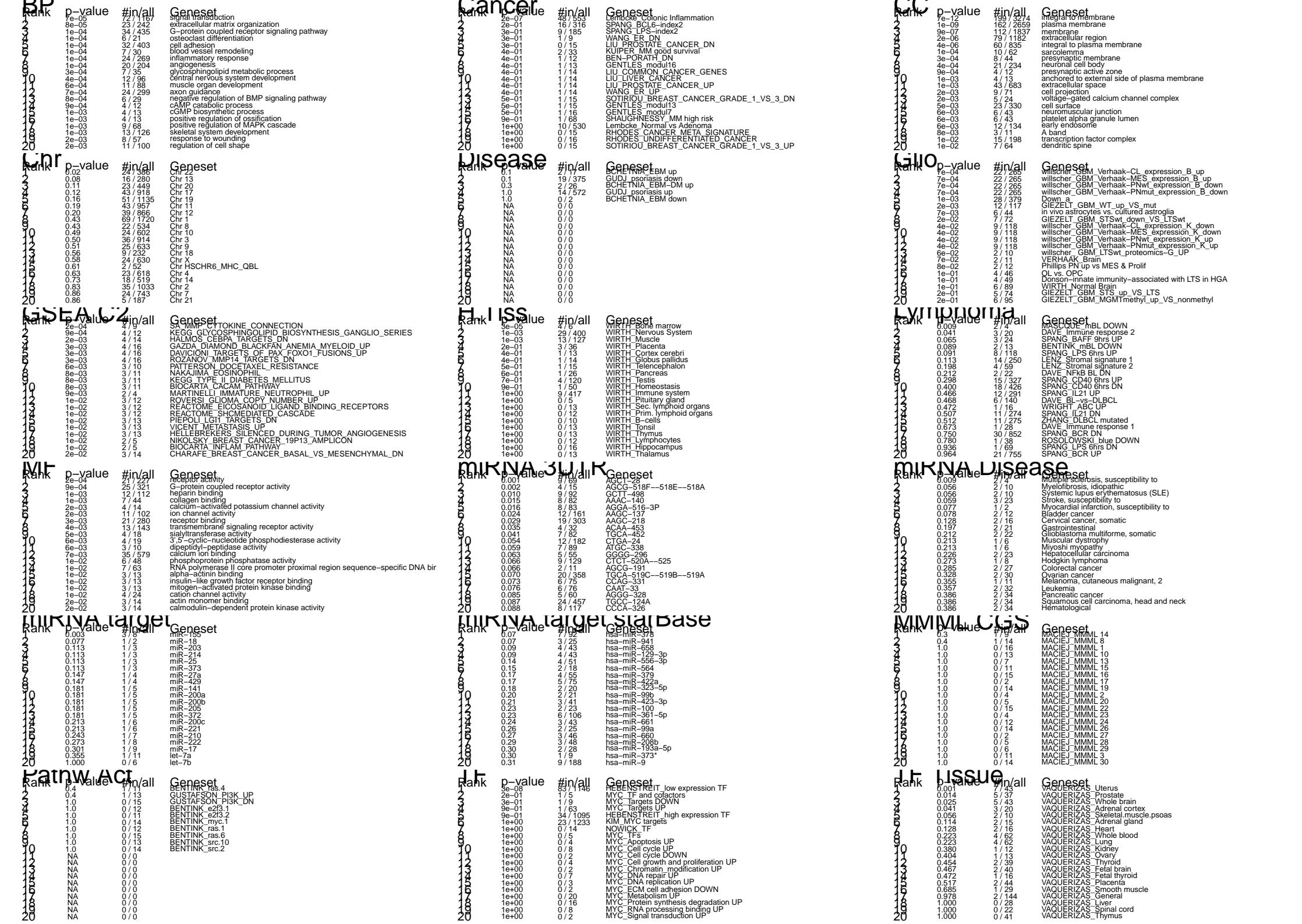
Rank	ID	max e	min e	r	Description	Symbol
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1	3598	1.82	-0.55	0.25	IL13RA2 interleukin 13 receptor, alpha 2 [Source:HGNC Symbol;Acc:5144]	
2	2710	1.79	-0.85	0.28	GK	glycerol kinase [Source:HGNC Symbol;Acc:4289]
3	3162	1.52	-0.96	0.35	HMOX1	heme oxygenase (decycling) 1 [Source:HGNC Symbol;Acc:5145]
4	84830	1.43	-0.67	0.26	ADTRP	androgen-dependent TFPI-regulating protein [Source:HGNC Symbol;Acc:4288]
5	4852	1.39	-0.2	0.39	NPY	neuropeptide Y [Source:HGNC Symbol;Acc:7955]
6	11026	1.33	-0.38	0.45	LILRA3	leukocyte immunoglobulin-like receptor, subfamily A (without transmembrane domain) [Source:HGNC Symbol;Acc:5146]
7	2081	1.29	-0.88	0.35	ERIN1	endoplasmic reticulum to nucleus signaling 1 [Source:HGNC Symbol;Acc:5147]
8	1028	1.27	-0.56	0.28	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2) [Source:HGNC Symbol;Acc:5148]
9	51561	1.25	-0.57	0.25	IL23A	interleukin 23, alpha subunit p19 [Source:HGNC Symbol;Acc:5149]
10	2254	1.25	-0.33	0.35	FGF9	fibroblast growth factor 9 [Source:HGNC Symbol;Acc:3687]
11	6653	1.23	-0.96	0.23	SORL1	sortilin-related receptor, L(DLR class) A repeats containing [Source:HGNC Symbol;Acc:5150]
12	597	1.22	-0.43	0.54	BCL2A1	BCL2-related protein A1 [Source:HGNC Symbol;Acc:991]
13	22941	1.22	-0.42	0.35	SHANK2	SH3 and multiple ankyrin repeat domains 2 [Source:HGNC Symbol;Acc:5151]
14	116372	1.19	-0.45	0.24	LYPD1	LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc:5152]
15	168544	1.18	-0.78	0.47	ZNF467	zinc finger protein 467 [Source:HGNC Symbol;Acc:23154]
16	7850	1.16	-0.64	0.28	IL1R2	interleukin 1 receptor, type II [Source:HGNC Symbol;Acc:599]
17	1803	1.14	-0.53	0.38	DPP4	dipeptidyl-peptidase 4 [Source:HGNC Symbol;Acc:3009]
18	4884	1.14	-0.31	0.26	NPTX1	neuronal pentraxin I [Source:HGNC Symbol;Acc:7952]
19	4124	1.13	-0.89	0.18	MAN2A1	mannosidase, alpha, class 2A, member 1 [Source:HGNC Symbol;Acc:5153]
20	3976	1.11	-0.3	0.52	LIF	leukemia inhibitory factor [Source:HGNC Symbol;Acc:6596]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-12	199 / 3274	CC integral to membrane
2	1e-09	162 / 2659	CC plasma membrane
3	3e-08	83 / 1146	TF HEBENSTREIT_low expression TF
4	2e-07	48 / 553	Cancer Lembecke_Colonie Inflammation
5	9e-07	112 / 1837	CC membrane
6	2e-06	79 / 1182	CC extracellular region
7	4e-06	60 / 835	CC integral to plasma membrane
8	3e-05	4 / 6	H.Tiss: WIRTH_Bone marrow
9	7e-05	72 / 1167	BP signal transduction
10	8e-05	23 / 242	extracellular matrix organization
11	1e-04	34 / 435	BP G-protein coupled receptor signaling pathway
12	1e-04	6 / 21	BP osteoclast differentiation
13	1e-04	32 / 403	BP cell adhesion
14	1e-04	7 / 30	BP blood vessel remodeling
15	1e-04	10 / 62	CC sarcolemma
16	1e-04	24 / 269	BP inflammatory response
17	1e-04	20 / 204	BP angiogenesis
18	2e-04	21 / 227	MF receptor activity
19	2e-04	4 / 9	GSE/SA MMP_CYTOKINE_CONNECTION
20	3e-04	8 / 44	CC presynaptic membrane
21	3e-04	7 / 35	BP glycosphingolipid metabolic process
22	4e-04	21 / 234	CC neuronal cell body
23	4e-04	12 / 96	BP central nervous system development
24	6e-04	11 / 88	BP muscle organ development
25	7e-04	24 / 299	BP axon guidance
26	7e-04	22 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
27	7e-04	22 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
28	7e-04	22 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
29	7e-04	22 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
30	8e-04	6 / 29	BP negative regulation of BMP signaling pathway
31	9e-04	25 / 321	MF G-protein coupled receptor activity
32	9e-04	4 / 12	BP cAMP catabolic process
33	9e-04	4 / 12	CC presynaptic active zone
34	9e-04	4 / 12	GSE/KEGG_GLYCOSPHINGOLIPID BIOSYNTHESIS_GANGLIO_SERIES
35	1e-03	28 / 379	Glio Down_a
36	1e-03	29 / 400	H.Tiss: WIRTH_Nervous System
37	1e-03	4 / 13	CC anchored to external side of plasma membrane
38	1e-03	4 / 13	BP cGMP biosynthetic process
39	1e-03	4 / 13	BP positive regulation of ossification
40	1e-03	9 / 68	BP positive regulation of MAPK cascade





K-Means Cluster

Spot Summary: Q

metagenes = 76
genes = 710

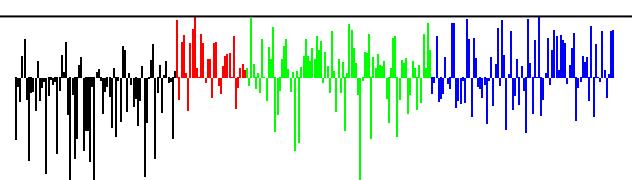
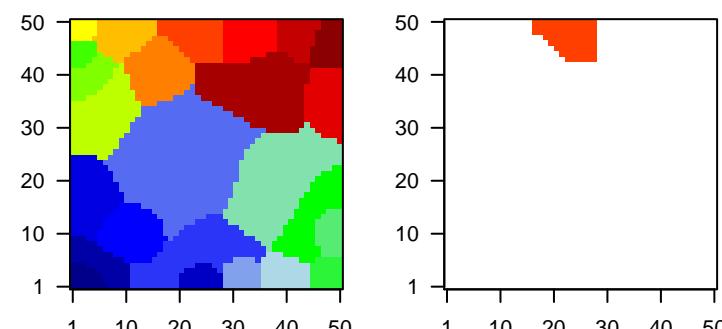
<r> metagenes = 0.85

<r> genes = 0.21

beta: r2= 3.42 / log p= -Inf

samples with spot = 0 (0 %)

Overview Map

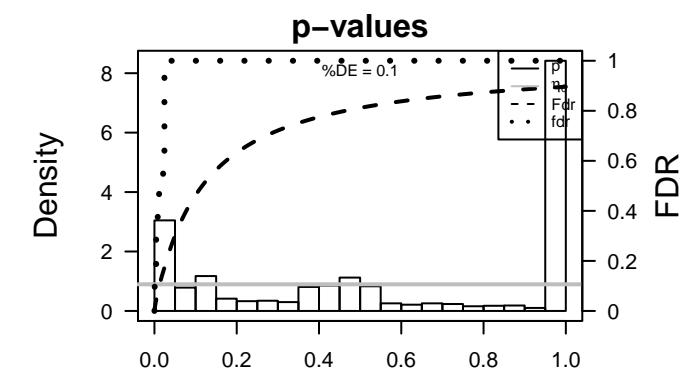


Spot Genelist

	Rank	ID	max e	min e	r	Description	Symbol
1	10413	2.32	-1.54	0.46	YAP1	Yes-associated protein 1 [Source:HGNC Symbol;Acc:16262]	
2	2354	2.13	-2.88	0.43	FOSB	FBJ murine osteosarcoma viral oncogene homolog B [Source:HGNC Symbol;Acc:3211]	
3	8349	2.04	-1.67	0.46	HIST2H2BE	histone cluster 2, H2be [Source:HGNC Symbol;Acc:4760]	
4	91612	2	-1.22	0.2	CHURC1	churchill domain containing 1 [Source:HGNC Symbol;Acc:2004]	
5	329	1.92	-0.97	0.34	BIRC2	baculoviral IAP repeat containing 2 [Source:HGNC Symbol;Acc:2005]	
6	147463	1.9	-1.14	0.36	ANKRD20	ankyrin repeat domain 29 [Source:HGNC Symbol;Acc:27110]	
7	100008589	1.84	-1.52	0.29	RNA28S	28S ribosomal 5 [Source:HGNC Symbol;Acc:37659]	
8	1843	1.8	-2.27	0.6	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:3001]	
9	114908	1.77	-1.52	0.42	TMEM12	transmembrane protein 123 [Source:HGNC Symbol;Acc:3013]	
10	1647	1.77	-1.07	0.3	GADD45A	growth arrest and DNA-damage-inducible, alpha [Source:HGNC Symbol;Acc:3014]	
11	25800	1.74	-1.25	0.54	SLC39A6	solute carrier family 39 (zinc transporter), member 6 [Source:HGNC Symbol;Acc:3015]	
12	23645	1.71	-1.84	0.38	PPP1R15A	protein phosphatase 1, regulatory subunit 15A [Source:HGNC Symbol;Acc:3016]	
13	1958	1.66	-2.12	0.48	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:3238]	
14	79659	1.63	-0.75	0.28	DYNC2H1	dynein, cytoplasmic 2, heavy chain 1 [Source:HGNC Symbol;Acc:3239]	
15	57214	1.61	-1.51	0.27	KIAA1199	KIAA1199 [Source:HGNC Symbol;Acc:29213]	
16	150094	1.57	-1.48	0.38	SIK1	salt-inducible kinase 1 [Source:HGNC Symbol;Acc:11142]	
17	10972	1.55	-1.23	0.61	TMED10	transmembrane emp24-like trafficking protein 10 (yeast) [Source:HGNC Symbol;Acc:11143]	
18	10950	1.54	-1.34	0.46	BTG3	BTG family, member 3 [Source:HGNC Symbol;Acc:1132]	
19	7538	1.53	-2.16	0.59	ZFP36	ZFP36 ring finger protein [Source:HGNC Symbol;Acc:12862]	
20	5366	1.49	-1.15	0.43	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:1304]	

Geneset Overrepresentation

	Rank	p-value	#in/all	Geneset
1	1e-30	82 / 436	miRN hsa-miR-548n	
2	1e-24	62 / 313	Glio willscher_GBM_Verhaak-CL_expression_D_up	
3	1e-24	62 / 313	Glio willscher_GBM_Verhaak-MES_expression_D_down	
4	1e-24	62 / 313	Glio willscher_GBM_Verhaak-PNwt_expression_D_up	
5	2e-23	79 / 517	miRN hsa-miR-106a	
6	1e-22	55 / 269	miRN hsa-miR-1244	
7	2e-22	59 / 310	miRN hsa-miR-340	
8	8e-22	76 / 511	miRN hsa-miR-106b	
9	6e-21	79 / 565	miRN hsa-miR-20b	
10	8e-21	52 / 262	miRN hsa-miR-548l	
11	9e-21	62 / 368	miRN hsa-miR-144	
12	1e-20	77 / 545	miRN hsa-miR-93	
13	2e-20	76 / 538	miRN hsa-miR-17	
14	2e-20	81 / 603	miRN hsa-miR-20a	
15	3e-19	38 / 150	miRN hsa-miR-200c	
16	6e-19	45 / 217	miRN hsa-miR-548m	
17	1e-18	54 / 313	miRN hsa-miR-559	
18	9e-18	68 / 494	miRN hsa-miR-107	
19	1e-17	60 / 399	miRN hsa-miR-519c-3p	
20	3e-17	48 / 271	miRN hsa-miR-548h	
21	4e-17	36 / 155	miRN hsa-miR-200b	
22	5e-17	58 / 387	miRN hsa-miR-519a	
23	5e-17	51 / 307	miRN hsa-miR-548c-5p	
24	6e-17	56 / 364	miRN hsa-miR-519b-3p	
25	7e-17	64 / 463	miRN hsa-miR-301a	
26	1e-16	53 / 335	miRN hsa-miR-142-5p	
27	1e-16	53 / 336	miRN hsa-miR-548d-5p	
28	1e-16	66 / 495	miRN hsa-miR-103	
29	2e-16	39 / 189	miRN hsa-miR-513a-3p	
30	2e-16	38 / 180	miRN hsa-miR-374a	
31	8e-16	50 / 315	miRN hsa-miR-30e	
32	9e-16	34 / 151	miRN hsa-miR-429	
33	1e-15	59 / 426	miRN hsa-miR-519d	
34	2e-15	61 / 456	miRN hsa-miR-130a	
35	2e-15	42 / 234	miRN hsa-miR-26a	
36	2e-15	48 / 300	miRN hsa-miR-561	
37	2e-15	50 / 324	miRN hsa-miR-18a	
38	4e-15	57 / 412	miRN hsa-miR-372	
39	4e-15	54 / 376	miRN hsa-miR-373	
40	5e-15	35 / 169	miRN hsa-miR-374b	



Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset	
1	1e-06	34 / 290	intracellular protein transport	2	1e-06	28 / 116	SPAN-BCL6-index2	3	27 / 40	6 / 688	Golgi apparatus	
2	3e-07	46 / 478	protein transport	4	2e-02	3 / 13	GENTLES_modul16	5	5e-08	41 / 455	perinuclear region of cytoplasm	
3	2e-06	21 / 149	ubiquitin-dependent protein catabolic process	6	1e-01	2 / 15	SOTIROU_BREAST_CANCER_GRADE_1_VS_3_DN	7	7e-06	144 / 2378	cytosol	
4	3e-06	29 / 262	protein ubiquitination	8	1e-01	2 / 15	GENTLES_modul1	9	3e-05	38 / 436	Golgi membrane	
5	8e-06	6 / 13	COP1 coating of Golgi vesicle	10	1e-01	2 / 16	GENTLES_modul4	11	3e-05	23 / 4310	cytoplasm	
6	1e-05	13 / 72	proteasome-mediated ubiquitin-dependent protein catabolic process	12	3e-01	3 / 48	KUPIER_MM_protein_survival	13	2e-04	51 / 14	GOLI_vesicle_coat	
7	2e-05	10 / 25	protein ubiquitination	14	4e-01	2 / 33	LIU_COMMON_CANCER_GENES	15	2e-04	46 / 621	endoplasmic reticulum	
8	2e-05	10 / 47	protein ubiquitination involved in ubiquitin-dependent protein catabolic proces	16	4e-01	1 / 15	KUPIER_MM_good_survival	17	6e-04	44 / 614	endoplasmic reticulum membrane	
9	3e-05	9 / 38	protein K48-linked ubiquitination	18	5e-01	1 / 15	RHODES_CANCER_META_SIGNATURE	19	6e-06	6 / 27	membrane coat	
10	3e-05	16 / 113	transforming growth factor beta receptor signaling pathway	20	5e-01	2 / 39	GENTLES_modul13	21	9e-04	4 / 11	Golgi-associated vesicle	
11	6e-05	7 / 25	retrograde vesicle-mediated transport, Golgi to ER	22	5e-01	1 / 18	ZINC_MM_up	23	9e-04	4 / 11	trans-Golgi network transport vesicle	
12	2e-04	9 / 49	ER to Golgi vesicle-mediated transport	24	5e-01	1 / 16	WOLFER_overlap_genes	25	1e-03	11 / 87	early endosome membrane	
13	3e-04	10 / 60	cellular response to calcium ion	26	8e-01	2 / 68	GENTLES_modul7	27	2e-03	10 / 80	nucleoplasm	
14	3e-04	5 / 15	COPII vesicle coating	28	1e+00	11 / 530	SHAUGHNESSY_MM_high_risk	29	5e-03	59 / 949	lamellipodium	
15	4e-04	6 / 24	phosphatidylinositol dephosphorylation	30	1e+00	7 / 553	Lembcke_Normal_vs_Adenoma	31	6e-03	7 / 78	PML_body	
16	5e-04	37 / 485	negative regulation of apoptotic process	32	1e+00	0 / 16	RHODES_UNDIFFERENTIATED_CANCER	33	4e-03	4 / 18	podosome	
17	6e-04	15 / 134	protein dephosphorylation	34	1e+00	0 / 15	SOTIROU_BREAST_CANCER_GRADE_1_VS_3_UP	35	7e-03	7 / 53	endoplasmic reticulum-Golgi intermediate compartment	
18	8e-04	8 / 47	skeletal muscle cell differentiation	36	1e+00	0 / 10	LIU_BREAST_CANCER	37	8e-03	9 / 81	ruffle	
Chr	Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset
1	1e-05	28 / 280	Ch1_3	2	1e-05	9 / 275	GUDJ_psoriasis_up	3	1e-24	62 / 313	Verhaak-CL_expression_D_up	
2	4e-04	49 / 199	Ch1_5	4	4e-03	41 / 618	GUDJ_psoriasis_down	5	1e-24	62 / 313	Verhaak-MES_expression_D_down	
3	4e-03	62 / 1033	Ch1_2	6	4e-03	62 / 1033	BCHEATNIA_EBM_up	7	5e-06	33 / 328	Verhaak-PNwt_expression_D_up	
4	2e-02	33 / 519	Ch1_14	8	1.0	0 / 17	BCHEATNIA_EBM_down	9	1e-03	10 / 73	WILSCHER_GBM_WT_down_VS_mut	
5	3e-02	32 / 504	Ch1_15	10	NA	0 / 0		11	5e-03	9 / 70	WILSCHER_GBM_proteomics_wtOnly_SpotJ	
6	7e-02	39 / 714	Ch1_6	12	NA	0 / 0		13	1e-02	8 / 49	WILSCHER_GBM_MGMTrmethyl_down_VS_nonomethyl	
7	1e-01	53 / 10	Ch1_10	14	NA	0 / 0		15	1e-02	10 / 105	WILSCHER_GBM_proteomics_wtOnly_SpotB	
8	1e-01	49 / 957	Ch1_11	16	NA	0 / 0		17	5e-02	6 / 62	Stuehler_Proteins_up_in_STS	
9	3e-01	45 / 914	Ch1_3	18	NA	0 / 0		18	9e-02	23 / 391	Down_b	
10	4e-01	41 / 866	Ch1_12	19	NA	0 / 0		19	1e-01	2 / 16	WILSCHER_GBM_STSwt_proteomics-C_UP	
11	5e-01	25 / 534	Ch1_8	20	NA	0 / 0		20	1e-01	1 / 4	WILSCHER_GBM_STSwt_proteomics-O_UP	
12	6e-01	10 / 502	Ch1_21	21	NA	0 / 0		21	2e-01	5 / 71	WILSCHER_GBM_Verhaak-CL_expression_H_down	
13	7e-01	30 / 743	Ch1_7	22	NA	0 / 0		22	2e-01	5 / 71	WILSCHER_GBM_Verhaak-MES_expression_H_up	
14	9e-01	22 / 633	Ch1_9	23	NA	0 / 0		23	2e-01	5 / 71	WILSCHER_GBM_Verhaak-PNwt_expression_H_up	
15	1e+00	1 / 52	Ch1_HSCHR6_MHC_QBL	24	NA	0 / 0		24	2e-01	1 / 5	Philips_Prolif_up_vs_PN + MES	
16	1e+00	58 / 1720	Ch1_1	25	NA	0 / 0		25	NA	0 / 0		
SEA	Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset
1	1e-02	8 / 16	EGF_SIGNALING_UP	2	1e-03	31 / 417	WIRTH_immune_system	3	1e-02	73 / 852	SPANG_BAF9_dn	
4	1e-06	9 / 15	CAP37_SKIN_WOUND	5	1e-05	2 / 13	WIRTH_sensohypoid_organs	6	2e-03	2 / 21	SPANG_BAF9_UP	
6	1e-06	2e-01	AMIT_EGF_RESPONSE_40_HEL	7	1e-05	1 / 13	WIRTH_Telencephalon	8	4e-03	2 / 21	SPANG_IL21_dn	
7	2e-06	7 / 16	AMIT_DELAYED_EARLY_GENES	9	0.355	1 / 10	WIRTH_B-cells	10	4e-03	48 / 755	SPANG_BCR_UP	
8	3e-05	6 / 16	SCIAN_INVERSED_TARGETS_OF_TP53_AND_TP73_DN	11	0.459	1 / 14	WIRTH_Globus_pallidus	12	5e-03	30 / 426	SPANG_CD40_6hrs_DN	
9	3e-05	6 / 16	AMIT_SERUM_RESPONSE_40_MCF10A	13	0.482	1 / 15	WIRTH_Cerebellum	14	1e-02	10 / 100	ROSOLOWSKI_blue_total	
10	3e-05	6 / 16	JL_RESPONSE_TO_TS2000	15	0.567	2 / 120	WIRTH_Testis	16	3e-02	7 / 69	ROSOLOWSKI_blue_6hrs_DN	
11	3e-04	5 / 15	CRM_MULTIPLY_MELANOMA_HYPERPLD_DN	17	0.577	2 / 17	WIRTH_Nerve	18	5e-02	8 / 96	ZHANG_DLBC_mutated	
12	3e-04	5 / 15	FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_UP	19	1.000	5 / 400	WIRTH_Nervous_System	19	5e-02	9 / 119	ROSOLOWSKI_green_total	
13	3e-04	5 / 15	GENTILE_U_RESPONSE_CLUSTER_D9	20	1.000	0 / 5	WIRTH_Pituitary_gland	20	8e-02	7 / 86	ROSOLOWSKI_green_UP	
14	4e-04	5 / 16	CAFFARELL_RESPONSE_TO_THC_UP	21	1.000	0 / 26	WIRTH_Pancreas	21	8e-02	5 / 54	SPANG_BAF9_9hrs_DN	
15	5e-04	5 / 16	AMIT_EGF_RESPONSE_40_MCF10A	22	1.000	0 / 12	WIRTH_Prime_lymphoid_organs	22	2e-01	1 / 4	MASQUE_mb_UP	
16	4e-04	5 / 16	DOSAGE_HORMONE_TARGETS	23	1.000	0 / 13	WIRTH_Tonsil	23	2e-01	1 / 5	MASQUE_mb_DOWN	
17	4e-04	5 / 16	UZONI_RESPONSE_TO_LTU_EUKOTRIENE_AND_THROMBIN	24	1.000	0 / 13	WIRTH_Lymphocytes	24	2e-01	1 / 20	ROSOLOWSKI_red_UP	
18	4e-04	4 / 10	REACTOME_COPI_MEDIATED_TRANSPORT	25	1.000	0 / 12	WIRTH_Bone_marrow	25	3e-01	1 / 8	MASQUE_GCB_UP	
19	4e-04	4 / 11	REACTOME_BETACATENIN_PHOSPHORYLATION CASCADE	26	1.000	0 / 6	WIRTH_Cortex_cerebri	26	3e-01	1 / 8	MASQUE_ABC_UP	
20	1e-03	4 / 12	SESTO_RESPONSE_TO_UV_C3	27	1.000	0 / 13	WIRTH_Hippocampus	27	4e-01	1 / 13	BENTINK_mb_UP	
21	2e-03	4 / 14	TIANINE_SIGNALING_NOT_VIA_NFKB	28	1.000	0 / 16	WIRTH_Endothelium	28	5e-01	1 / 13	BENTINK_mb_DOWN	
22	2e-03	4 / 14	KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_INF	29	1.000	0 / 13	WIRTH_Homeostasis	29	5e-01	2 / 38	ROSOLOWSKI_blue_DOWN	
MIF	Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset
1	8e-01	32 / 802	Geneset	2	2e-01	26 / 232	ATT1-T42-5P	3	2e-01	73 / 30	Thyroid_carcinoma_papillary	
2	6e-06	35 / 361	ubiquitin-binding	4	3e-06	34 / 10	TGTAA-181A-181B-181C-181D	5	1e-05	0.017	Duchenne_muscular_dystrophy	
3	6e-05	9 / 42	ubiquitin-protein ligase activity	6	5e-10	46 / 391	AACT-223	7	1e-09	0.017	Gastroesophageal_reflux	
4	2e-04	11 / 69	protein serine/threonine phosphatase activity	8	7e-09	41 / 354	CTTT-524	9	2e-05	0.025	Muscular_dystrophy	
5	2e-04	9 / 48	phosphatidylinositol binding	10	9e-09	31 / 225	TATT-374	11	2e-05	0.025	Miyoshi_myopathy	
6	1e-03	11 / 86	phosphoprotein phosphatase activity	12	2e-08	21 / 182	TGAT-374	13	2e-05	0.025	Esophageal_cancer	
7	2e-03	24 / 288	protein kinase binding	14	4e-08	49 / 250	GCACT-7-5P-20A-106A-106B-20B-519D	15	3e-05	0.025	Cardiac_arrest	
8	3e-03	6 / 31	protein transporter activity	16	4e-08	25 / 165	TTTG-518A-2	17	4e-05	0.025	Myocardial_infarction_susceptibility_to	
9	3e-03	8 / 57	14-3-3 protein binding	18	6e-08	28 / 205	GTAC-101	19	5e-04	0.084	Cardiomyopathy_idiopathic_dilated	
10	4e-03	4 / 16	ubiquitin receptor binding	20	1e-07	30 / 240	ACAT-1-206	21	6e-04	0.091	Bladder_cancer	
11	5e-03	6 / 37	ubiquitin protein ligase binding	22	1e-07	30 / 240	CAGT-141-200A	23	7e-04	0.123	Systemic_lupus erythematosus_susceptibility	
12	5e-03	14 / 148	transcription_coactivator activity	24	5e-07	23 / 158	ATAT-240	25	8e-04	0.123	Dermatomyotitis	
13	6e-03	18 / 92	ubiquitin-specific protease activity	26	5e-07	23 / 129	CTTG-381	27	9e-04	0.133	Cancer_care	
14	6e-03	10 / 92	ATP-dependent helicase activity	28	6e-06	40 / 415	TTTG-19A-19B	29	1e-04	0.161	Thyroid_carcinoma_follicular	
15	8e-03	3 / 10	lamin binding	30	1e-06	24 / 189	AACT-145	31	1e-04	0.164	Cardiomyopathy_dilated	
16	8e-03	3 / 10	poly(A) RNA binding	32	1e-06	21 / 151	GTAT-369-3P	33	1e-04	0.195	Multiple_myeloma	
17	8e-03	4 / 19	R-SMAD binding	34	1e-06	20 / 140	CATG-496	35	1e-04	0.197	Autism_susceptibility_to	
18	8e-03	4 / 19	acid-amino acid ligase activity	36	1e-06	36 / 362	CAGT-200B-200C-429	37	2e-04	0.227	Gastrointestinal_fistula	
MIRNA	Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset	Rank	p-value	#in/all	Geneset
1	0.005	2 / 3	miR-214	2	1e-30	87 / 436	hsa-mir-548a	3	2e-02	7 / 16	MACIEJ_MMML_50	
2	0.005	2 / 3	miR-163	4	2e-02	73 / 249	hsa-mir-124	5	2e-03	4 / 13	MACIEJ_MMML_30	
3	0.017	2 / 5	miR-101	6	2e-02	55 / 249	hsa-mir-340	7	2e-02	2 / 5	MACIEJ_MMML_22	
4	0.017	2 / 10	miR-146a	8	2e-22	59 / 310	hsa-mir-106b	9	2e-02	2 / 11	MACIEJ_MMML_28	
5	0.078	2 / 11	let-7a	10	8e-22	76 / 511	hsa-mir-20b	11	2e-02	2 / 11	MACIEJ_MMML_31	
6	0.084	1 / 22	miR-153	12	6e-21	79 / 565	hsa-mir-548i	13	2e-02	2 / 12	MACIEJ_MMML_49	
7	0.084	1 / 22	miR-168	14	5e-21	52 / 262	hsa-mir-944	15	2e-02	2 / 14	MACIEJ_MMML_20	
8	0.123	1 / 33	miR-198	16	1e-20	77 / 545	hsa-mir-17	17	2e-01	1 / 6	MACIEJ_MMML_29	
9	0.123	1 / 33	miR-223	18	2e-20	76 / 538	hsa-mir-20a	19	3e-01	1 / 7	MACIEJ_MMML_48	
10	0.123	1 / 33	miR-302d	20	8e-19	81 / 603	hsa-mir-200c	21	4e-01	1 / 14	MACIEJ_MMML_8	
11	0.161	1 / 4	miR-122	22	3e-19	38 / 150	hsa-mir-540m	23	5e-01	1 / 15	MACIEJ_MMML_16	
12	0.161	1 / 4	miR-195	24	1e-18	45 / 217	hsa-mir-569	25	6e-01	0 / 16	MACIEJ_MMML_13	
13	0.161	1 / 4	miR-204	26	1e-18	68 / 494	hsa-mir-107	27	1e+00	0 / 7	MACIEJ_MMML_14	
14	0.161	1 / 4	miR-34b	28	1e-17	60 / 399	hsa-mir-519c-3p	29	1e+00	0 / 9	MACIEJ_MMML_15	
15	0.161	1 / 4	miR-34c	30	1e-17	48 / 2						

K-Means Cluster

Spot Summary: R

metagenes = 50
genes = 596

<r> metagenes = 0.92

<r> genes = 0.32

beta: r2= 6.9 / log p= -Inf

samples with spot = 25 (9.1 %)

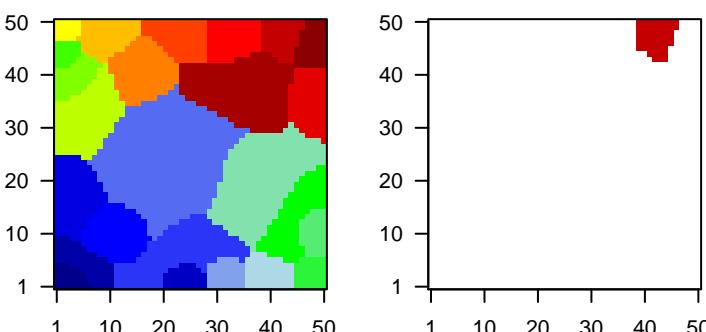
Atypical : 5 (6.8 %)

Classical : 6 (18.8 %)

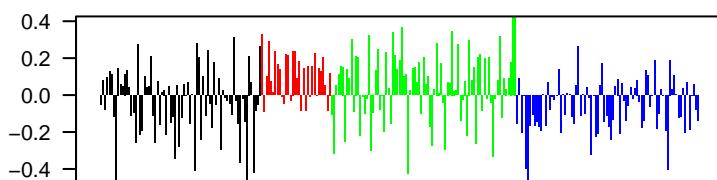
Mesenchymal : 13 (15.3 %)

Basal : 1 (1.2 %)

Overview Map



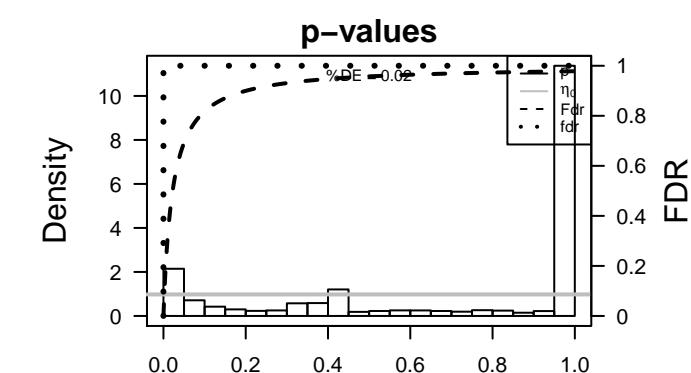
Spot

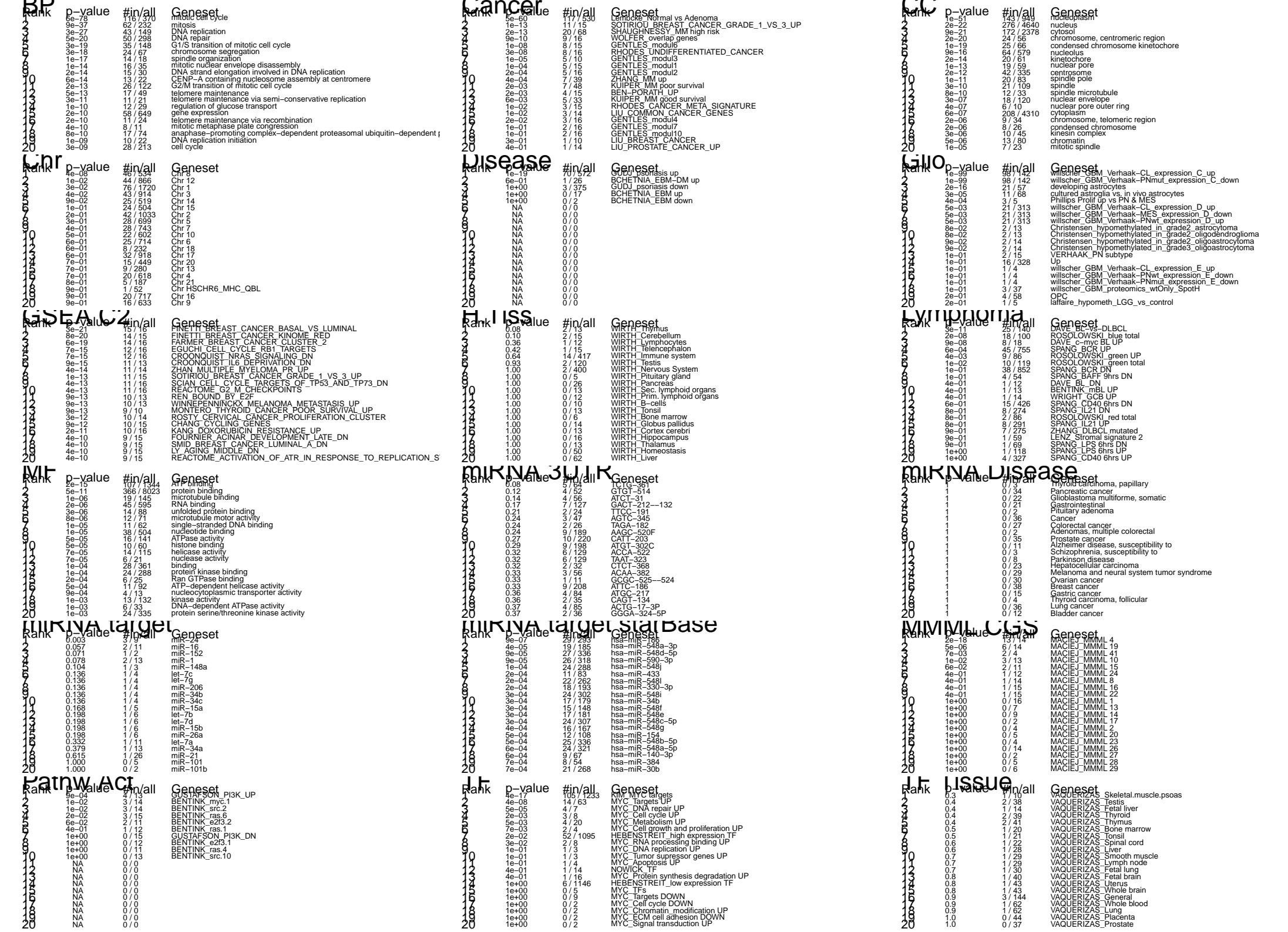


Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	100008588	2.37	-0.91	0.23	RNA18S rRNA, 18S ribosomal 5 [Source:HGNC Symbol;Acc:37657]		1	1e-99	98 / 142	Glio willscher_GBM_Verhaak-CL_expression_C_up
2	908	1.96	-0.89	0.63	CCT6A chaperonin containing TCP1, subunit 6A (zeta 1) [Source:HG		2	1e-99	98 / 142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
3	8500	1.93	-1.22	0.43	PPFIA1 protein tyrosine phosphatase, receptor type, f polypeptide (P1		3	6e-78	116 / 370	BP mitotic cell cycle
4	9918	1.93	-1.18	0.52	NCAPD2 non-SMC condensin I complex, subunit D2 [Source:HGNC S		4	5e-60	117 / 530	Cancer Lembeck_Normal vs Adenoma
5	793	1.83	-0.42	0.29	CALB1 calbindin 1, 28kDa [Source:HGNC Symbol;Acc:1434]		5	1e-51	143 / 949	CC nucleoplasm
6	23480	1.83	-1.04	0.49	SEC61G Sec61 gamma subunit [Source:HGNC Symbol;Acc:18277]		6	9e-37	62 / 232	BP mitosis
7	8836	1.83	-1.06	0.52	GGH gamma-glutamyl hydrolase (conjugase, foly/polygammaglutam		7	3e-27	43 / 149	BP DNA replication
8	387103	1.83	-1.44	0.62	CENPW centromere protein W [Source:HGNC Symbol;Acc:21488]		8	2e-22	276 / 4640	CC nucleus
9	2631	1.79	-0.97	0.4	GBAS glioblastoma amplified sequence [Source:HGNC Symbol;Acc:		9	3e-21	15 / 16	GSE/ FINETTI_BREAST_CANCER_BASAL_VS_LUMINAL
10	26872	1.76	-1.29	0.41	STEAP1 six transmembrane epithelial antigen of the prostate 1 [Sourc		10	9e-21	172 / 2378	CC cytosol
11	81831	1.76	-1.65	0.52	NETO2 neuropilin (NRP) and tollloid (TLL)-like 2 [Source:HGNC Sym		11	2e-20	24 / 56	CC chromosome, centromeric region
12	86	1.75	-1.06	0.84	ACTL6A actin-like 6A [Source:HGNC Symbol;Acc:24124]		12	5e-20	50 / 298	BP DNA repair
13	3992	1.73	-1.29	0.47	FADS1 fatty acid desaturase 1 [Source:HGNC Symbol;Acc:3574]		13	8e-20	14 / 15	GSE/ FINETTI_BREAST_CANCER_KINOME_RED
14	3945	1.73	-1.73	0.38	LDHB lactate dehydrogenase B [Source:HGNC Symbol;Acc:6541]		14	1e-19	25 / 66	CC condensed chromosome kinetochore
15	5984	1.72	-1.26	0.89	RFC4 replication factor C (activator 1) 4, 37kDa [Source:HGNC Syn		15	70 / 572	Disea GUDJ_psoriasis up	
16	116832	1.7	-1.8	0.61	RPL39L ribosomal protein L39-like [Source:HGNC Symbol;Acc:17094		16	3e-19	35 / 148	BP G1/S transition of mitotic cell cycle
17	7153	1.7	-1.84	0.83	TOP2A topoisomerase (DNA) II alpha 170kDa [Source:HGNC Symbol;		17	6e-19	14 / 16	GSE/ FARMER_BREAST_CANCER_CLUSTER_2
18	1894	1.64	-1.47	0.85	ECT2 epithelial cell transforming sequence 2 oncogene [Source:HG		18	13 / 14	MMM MACIEJ_MMML 4	
19	10635	1.63	-1.2	0.84	RAD51RAD51 associated protein 1 [Source:HGNC Symbol;Acc:1691		19	3e-18	24 / 67	BP chromosome segregation
20	3191	1.62	-1.54	0.22	HNRNPFL heterogeneous nuclear ribonucleoprotein L [Source:HGNC S		20	1e-17	14 / 18	BP spindle organization
							21	4e-17	105 / 1233	TF KIM_MYC targets
							22	2e-16	21 / 57	Glio developing astrocytes
							23	9e-16	64 / 579	CC nucleolus
							24	2e-15	107 / 1344	MF ATP binding
							25	7e-15	12 / 16	GSE/ EGUCHI_CELL_CYCLE_RB1_TARGETS
							26	7e-15	12 / 16	GSE/ CROONQUIST_NRAS_SIGNALING_DN
							27	9e-15	11 / 13	GSE/ CROONQUIST_IL6_DEPRIVATION_DN
							28	1e-14	16 / 35	BP mitotic nuclear envelope disassembly
							29	2e-14	20 / 61	CC kinetochore
							30	2e-14	15 / 30	BP DNA strand elongation involved in DNA replication
							31	4e-14	11 / 14	GSE/ ZHAN_MULTIPLE_MYELOMA_PR_UP
							32	6e-14	13 / 22	BP CENP-A containing nucleosome assembly at centromere
							33	1e-13	19 / 59	CC nuclear pore
							34	1e-13	11 / 15	Cancer SOTIROU_BREAST_CANCER_GRADE_1_VS_3_UP
							35	2e-13	20 / 68	Cancer SHAUGHNESSY_MM high risk
							36	2e-13	26 / 122	BP G2/M transition of mitotic cell cycle
							37	4e-13	11 / 16	GSE/ SCIAN_CELL_CYCLE_TARGETS_OF_TP53_AND_TP73_DN
							38	4e-13	11 / 16	GSE/ REACTOME_G2_M_CHECKPOINTS
							39	5e-13	17 / 49	BP telomere maintenance
							40	9e-13	10 / 13	GSE/ REN_BOUND_BY_E2F

Geneset Overrepresentation





K-Means Cluster

Spot Summary: S

metagenes = 117
genes = 517

<r> metagenes = 0.81

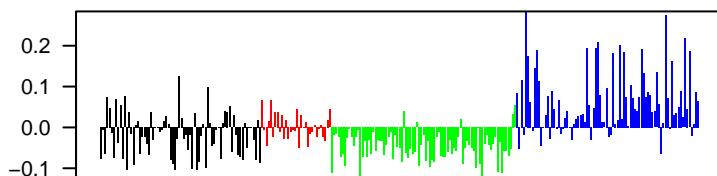
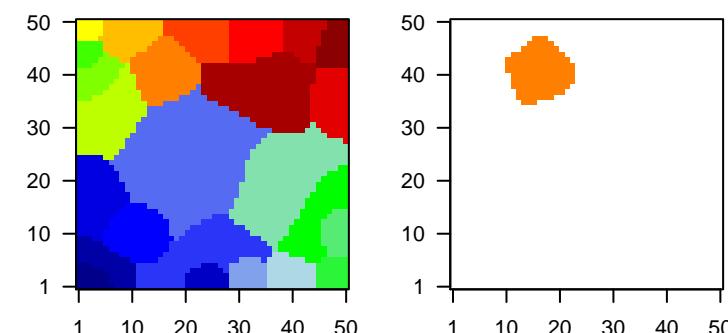
<r> genes = 0.14

beta: r2= 1.25 / log p= -Inf

samples with spot = 2 (0.7 %)

Basal : 2 (2.4 %)

Overview Map

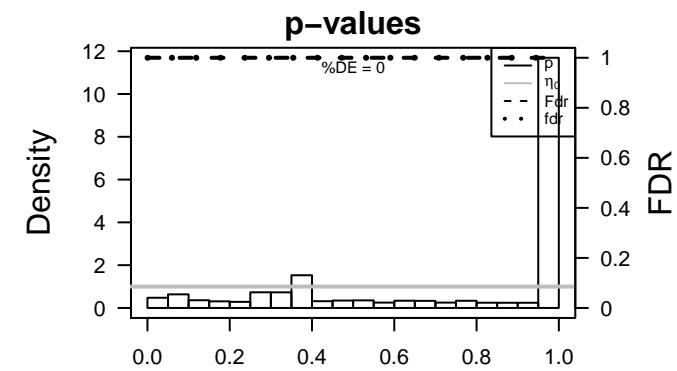


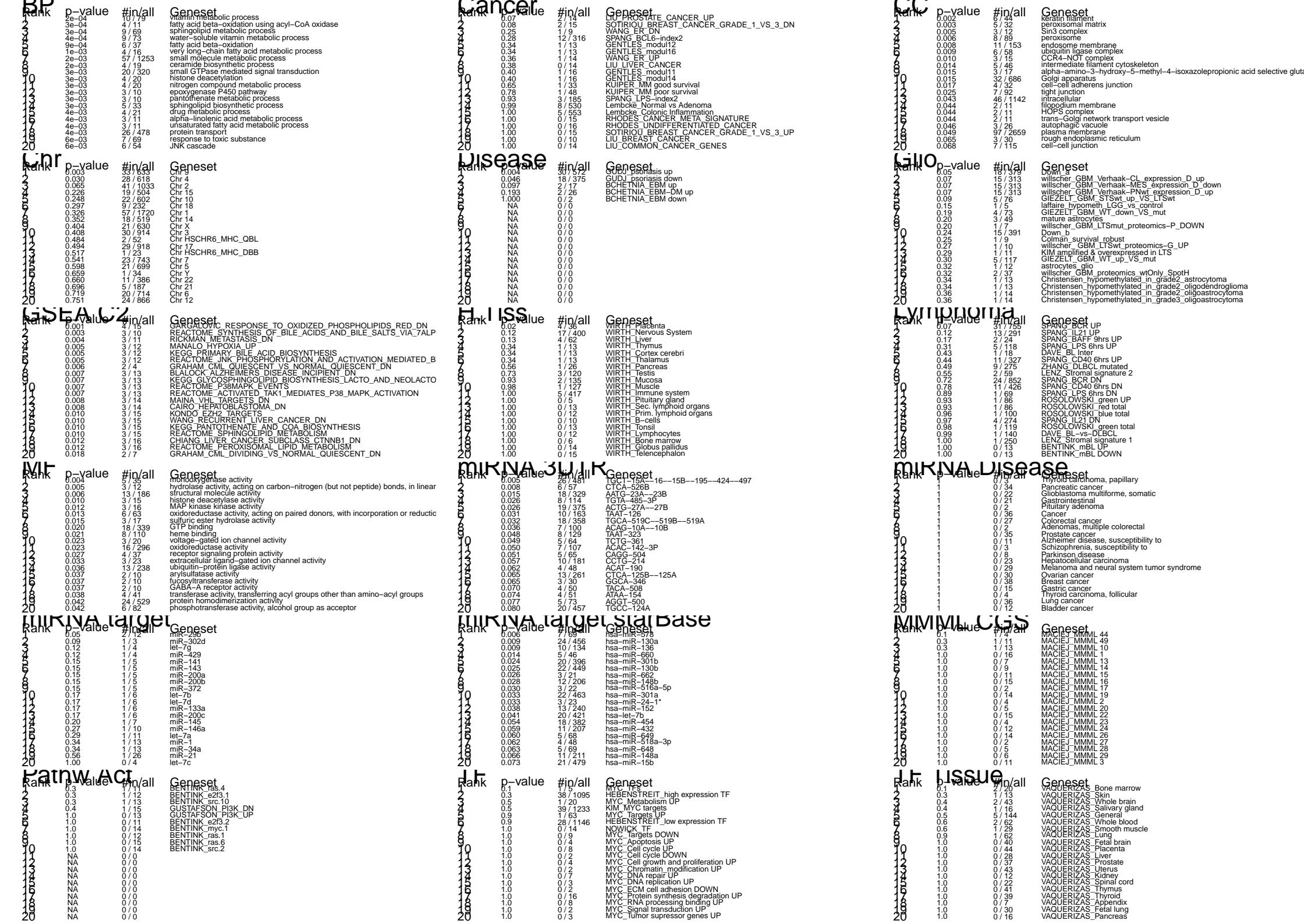
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol
1	3933	2.9	-0.29	0.26	LCN1	lipocalin 1 [Source:HGNC Symbol;Acc:6525]
2	140683	1.96	-0.22	0.23	BPIFA2	BPI fold containing family A, member 2 [Source:HGNC Symbol;Acc:6439]
3	3849	1.85	-0.46	0.31	KRT2	keratin 2 [Source:HGNC Symbol;Acc:6439]
4	10913	1.63	-0.56	0.38	EDAR	ectodysplasin A receptor [Source:HGNC Symbol;Acc:2895]
5	79746	1.63	-1.28	0.23	ECHDC3	enoyl CoA hydratase domain containing 3 [Source:HGNC Symbol;Acc:6439]
6	3656	1.46	-0.91	0.33	IRAK2	interleukin-1 receptor-associated kinase 2 [Source:HGNC Symbol;Acc:6439]
7	10331	1.44	-0.51	0.42	B3GNT3	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3 [Source:HGNC Symbol;Acc:6439]
8	3359	1.44	-0.35	0.36	HTR3A	5-hydroxytryptamine (serotonin) receptor 3A, ionotropic [Source:HGNC Symbol;Acc:6439]
9	10451	1.43	-1.18	0.34	VAV3	vav 3 guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:6439]
10	55344	1.42	-0.83	0.29	PLCXD1	phosphatidylinositol-specific phospholipase C, X domain containing 1 [Source:HGNC Symbol;Acc:6439]
11	3850	1.41	-0.4	0.54	KRT3	keratin 3 [Source:HGNC Symbol;Acc:6440]
12	51350	1.4	-0.21	0.33	KRT76	keratin 76 [Source:HGNC Symbol;Acc:24430]
13	29949	1.4	-0.4	0.25	IL19	interleukin 19 [Source:HGNC Symbol;Acc:5990]
14	2952	1.38	-1.77	0.21	GSTT1	glutathione S-transferase theta 1 [Source:HGNC Symbol;Acc:6439]
15	4217	1.33	-0.95	0.18	MAP3K5	mitogen-activated protein kinase kinase kinase 5 [Source:HGNC Symbol;Acc:6439]
16	1373	1.32	-0.55	0.24	CPS1	carbamoyl-phosphate synthase 1, mitochondrial [Source:HGNC Symbol;Acc:6439]
17	55277	1.29	-0.64	0.32	FGGY	FGGY carbohydrate kinase domain containing [Source:HGNC Symbol;Acc:6439]
18	158158	1.29	-0.96	0.3	RASEF	RAS and EF-hand domain containing [Source:HGNC Symbol;Acc:6439]
19	55640	1.26	-0.72	0.41	FLVCR2	feline leukemia virus subgroup C cellular receptor family, member 2 [Source:HGNC Symbol;Acc:6439]
20	116362	1.25	-0.68	0.41	RBPF7	retinol binding protein 7, cellular [Source:HGNC Symbol;Acc:6439]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-04	10 / 79	BP vitamin metabolic process
2	3e-04	4 / 11	BP fatty acid beta-oxidation using acyl-CoA oxidase
3	3e-04	9 / 69	BP sphingolipid metabolic process
4	4e-04	9 / 73	BP water-soluble vitamin metabolic process
5	9e-04	6 / 37	BP fatty acid beta-oxidation
6	1e-03	4 / 15	GSEA GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_RED_DN
7	1e-03	4 / 16	BP very long-chain fatty acid metabolic process
8	2e-03	6 / 44	CC keratin filament
9	2e-03	57 / 1253	BP small molecule metabolic process
10	2e-03	4 / 19	BP ceramide biosynthetic process
11	3e-03	20 / 320	BP small GTPase mediated signal transduction
12	3e-03	33 / 633	Chr Chr 9
13	3e-03	5 / 32	CC peroxisomal matrix
14	3e-03	4 / 20	BP histone deacetylation
15	3e-03	4 / 20	BP nitrogen compound metabolic process
16	3e-03	3 / 10	BP epoxigenase P450 pathway
17	3e-03	3 / 10	BP pantothenate metabolic process
18	3e-03	3 / 10	GSEA REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS_VIA_7A
19	3e-03	5 / 33	BP sphingolipid biosynthetic process
20	4e-03	4 / 21	BP drug metabolic process
21	4e-03	30 / 572	Disea GUDJ_psoriasis up
22	4e-03	3 / 11	BP alpha-linolenic acid metabolic process
23	4e-03	3 / 11	BP unsaturated fatty acid metabolic process
24	4e-03	3 / 11	GSEA RICKMAN_METASTASIS_DN
25	4e-03	26 / 478	BP protein transport
26	4e-03	5 / 35	MF monooxygenase activity
27	5e-03	26 / 481	miRN TGCT-15A—16—15B—195—424—497
28	5e-03	3 / 12	MF hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in line
29	5e-03	3 / 12	CC Sin3 complex
30	5e-03	3 / 12	GSEA MANALO_HYPOTIA_UP
31	5e-03	3 / 12	GSEA KEGG_PRIMARY_BILE_ACID BIOSYNTHESIS
32	5e-03	3 / 12	GSEA REACTOME_JNK_PHOSPHORYLATION_AND_ACTIVATION_MEDiated
33	6e-03	7 / 69	BP response to toxic substance
34	6e-03	7 / 69	miRN hsa-miR-578
35	6e-03	13 / 186	MF structural molecule activity
36	6e-03	2 / 4	GSEA GRAHAM_CML QUIESCENT_VS_NORMAL QUIESCENT_DN
37	6e-03	6 / 54	BP JNK cascade
38	6e-03	8 / 89	CC peroxisome
39	7e-03	3 / 13	GSEA BLAOCK_ALZHEIMERS_DISEASE_INCIPENT_DN
40	7e-03	3 / 13	GSEA KEGG_GLYCOSPHINGOLIPID BIOSYNTHESIS_LACTO_AND_NEOLAC





K-Means Cluster

Spot Summary: T

metagenes = 19
genes = 260

<r> metagenes = 0.97

<r> genes = 0.46

beta: r2= 56.45 / log p= -Inf

samples with spot = 101 (36.7 %)

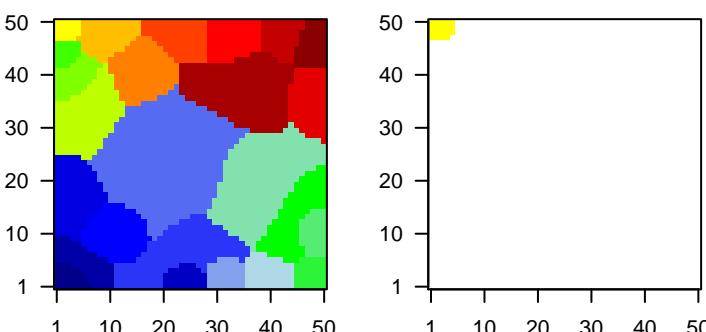
Atypical : 11 (14.9 %)

Classical : 7 (21.9 %)

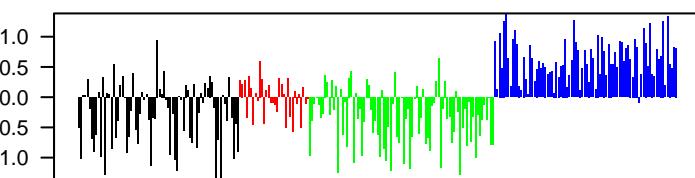
Mesenchymal : 10 (11.8 %)

Basal : 73 (86.9 %)

Overview Map



Spot

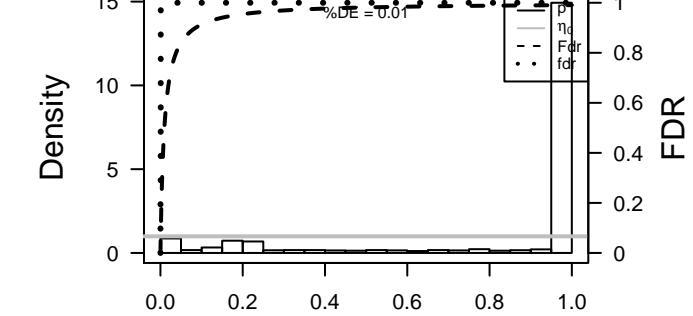


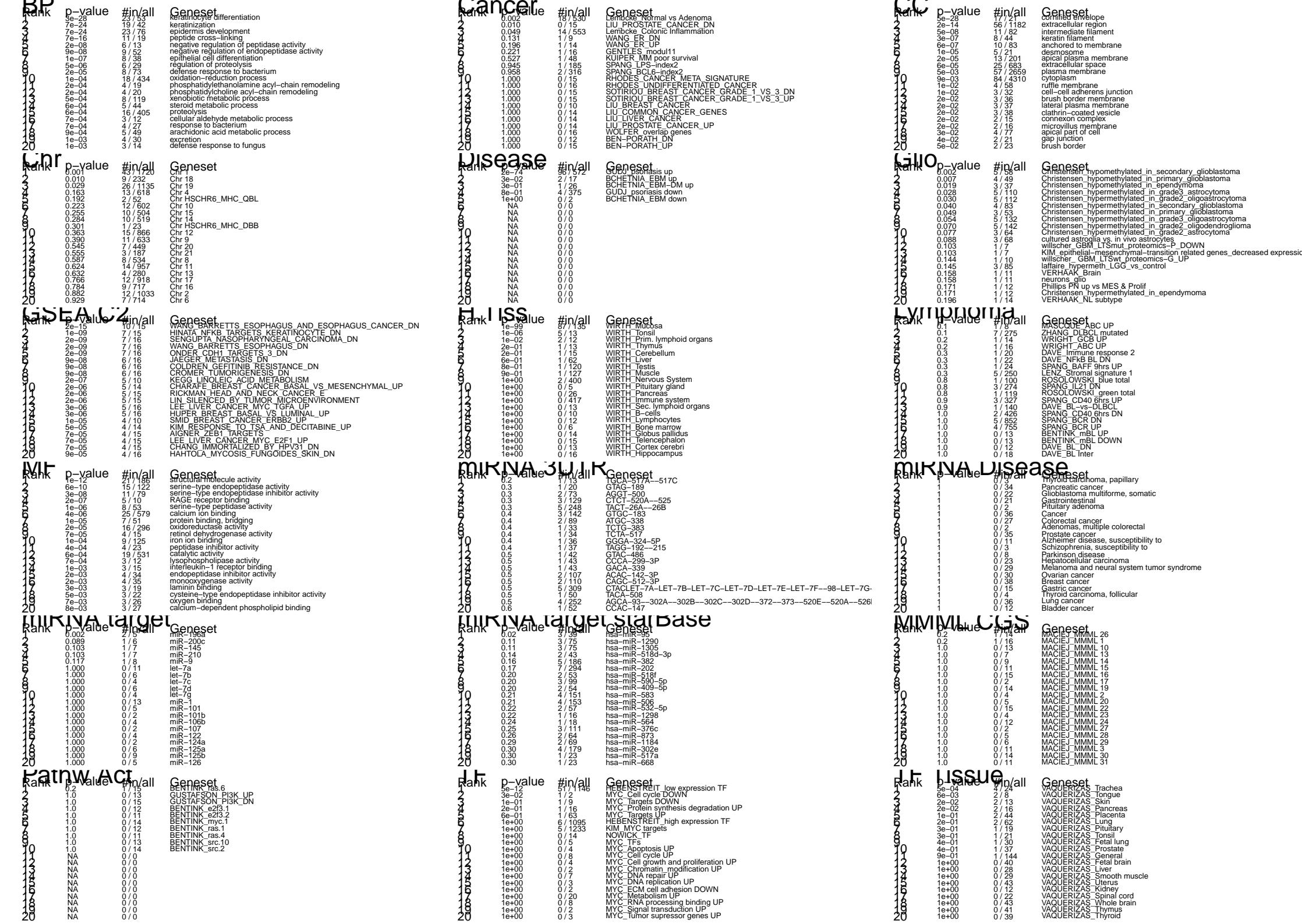
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	3848	4.75	-1.88	0.67	KRT1	keratin 1 [Source:HGNC Symbol;Acc:6412]	1	1e-99	87 / 135	H.Tiss: WIRTH_Mucosa
2	3851	4.24	-3.19	0.57	KRT4	keratin 4 [Source:HGNC Symbol;Acc:6441]	2	2e-74	96 / 572	Disea: GUDU_psoriasis up
3	49860	4.24	-3.23	0.72	CRNN	cornulin [Source:HGNC Symbol;Acc:1230]	3	3e-28	23 / 53	BP: keratinocyte differentiation
4	4118	3.95	-3.23	0.61	MAL	mal, T-cell differentiation protein [Source:HGNC Symbol;Acc:6413]	4	5e-28	17 / 21	CC: cornified envelope
5	4014	3.86	-0.97	0.38	LOR	loricrin [Source:HGNC Symbol;Acc:6663]	5	7e-24	19 / 42	BP: keratinization
6	1673	3.84	-3.54	0.67	DEFB4B	defensin, beta 4B [Source:HGNC Symbol;Acc:30193]	6	7e-24	23 / 76	BP: epidermis development
7	6701	3.84	-2.1	0.75	SPRR2B	small proline-rich protein 2B [Source:HGNC Symbol;Acc:1120]	7	7e-16	11 / 19	BP: peptide cross-linking
8	6947	3.77	-1.96	0.46	TCN1	transcobalamin I (vitamin B12 binding protein, R binder family)	8	2e-15	10 / 15	GSEA: WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCER_DN
9	414325	3.77	-2.67	0.71	DEFB103B	defensin, beta 103B [Source:HGNC Symbol;Acc:31702]	9	2e-14	56 / 1182	CC: extracellular region
10	6706	3.74	-3.05	0.71	SPRR2G	small proline-rich protein 2G [Source:HGNC Symbol;Acc:1121]	10	1e-12	21 / 186	MF: structural molecule activity
11	57152	3.69	-1.77	0.81	SLURP1	secreted LY6/PLAUR domain containing 1 [Source:HGNC Symbol]	11	5e-12	51 / 1146	TF: HEBENSTREIT_low expression TF
12	2877	3.69	-3.11	0.44	GPX2	glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Symbol]	12	6e-10	15 / 122	MF: serine-type endopeptidase activity
13	338324	3.66	-2.9	0.68	S100A7AS100	calcium binding protein A7A [Source:HGNC Symbol;Acc:31703]	13	1e-09	7 / 15	GSEA: HINATA_NFKB_TARGETS_KERATINOCTYE_DN
14	7053	3.52	-3.39	0.81	TGM3	transglutaminase 3 [Source:HGNC Symbol;Acc:11779]	14	2e-09	7 / 16	GSEA: SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
15	1828	3.51	-1.97	0.78	DSG1	desmoglein 1 [Source:HGNC Symbol;Acc:3048]	15	2e-09	7 / 16	GSEA: ONDER_CDH1_TARGETS_3_DN
16	55894	3.4	-1.83	0.73	DEFB103B	defensin, beta 103B [Source:HGNC Symbol;Acc:31702]	16	2e-09	6 / 13	BP: negative regulation of peptidase activity
17	8644	3.37	-2.96	0.4	AKR1C3	aldo-keto reductase family 1, member C3 [Source:HGNC Symbol]	17	3e-08	6 / 13	MF: serine-type endopeptidase inhibitor activity
18	84651	3.36	-1.82	0.74	SPINK7	serine peptidase inhibitor, Kazal type 7 (putative) [Source:HGNC Symbol]	18	3e-08	11 / 79	CC: intermediate filament
19	84648	3.36	-2.37	0.72	LCE3D	late cornified envelope 3D [Source:HGNC Symbol;Acc:16615]	19	5e-08	9 / 52	BP: negative regulation of endopeptidase activity
20	29113	3.29	-1.18	0.39	C6orf15	chromosome 6 open reading frame 15 [Source:HGNC Symbol;Acc:31704]	20	5e-08	6 / 16	GSEA: JAEGER_METASTASIS_DN
							21	9e-08	6 / 16	GSEA: COLDREN_GEFITINIB_RESISTANCE_DN
							22	9e-08	6 / 16	GSEA: CROMER_TUMORIGENESIS_DN
							23	9e-08	6 / 16	MF: RAGE receptor binding
							24	1e-07	8 / 38	CC: epithelial cell differentiation
							25	2e-07	5 / 10	GSEA: KEGG_LINOLEIC_ACID_METABOLISM
							26	2e-07	5 / 10	MF: anchored to membrane
							27	3e-07	8 / 44	CC: keratin filament
							28	6e-07	10 / 83	H.Tiss: WIRTH_Tonsil
							29	1e-06	5 / 13	MF: serine-type peptidase activity
							30	1e-06	8 / 53	GSEA: CHARAF_E_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP
							31	2e-06	5 / 14	GSEA: RICKMAN_HEAD_AND_NECK_CANCER_E
							32	2e-06	5 / 15	GSEA: LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
							33	2e-06	5 / 15	GSEA: LEE_LIVER_CANCER_MYC_TGFA_UP
							34	3e-06	5 / 16	GSEA: HUPER_BREAST_BASAL_VS_LUMINAL_UP
							35	3e-06	5 / 16	MF: calcium ion binding
							36	4e-06	25 / 579	BP: regulation of proteolysis
							37	5e-06	6 / 29	GSEA: SMID_BREAST_CANCER_ERBB2_UP
							38	1e-05	4 / 10	MF: protein binding, bridging
							39	1e-05	7 / 51	CC: desmosome
							40	1e-05	5 / 21	H.Tiss: WIRTH_Tonsil

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	87 / 135	H.Tiss: WIRTH_Mucosa
2	2e-74	96 / 572	Disea: GUDU_psoriasis up
3	3e-28	23 / 53	BP: keratinocyte differentiation
4	5e-28	17 / 21	CC: cornified envelope
5	7e-24	19 / 42	BP: keratinization
6	7e-24	23 / 76	BP: epidermis development
7	7e-16	11 / 19	BP: peptide cross-linking
8	2e-15	10 / 15	GSEA: WANG_BARRETTES_ESOPHAGUS_AND_ESOPHAGUS_CANCER_DN
9	2e-14	56 / 1182	CC: extracellular region
10	1e-12	21 / 186	MF: structural molecule activity
11	5e-12	51 / 1146	TF: HEBENSTREIT_low expression TF
12	6e-10	15 / 122	MF: serine-type endopeptidase activity
13	1e-09	7 / 15	GSEA: HINATA_NFKB_TARGETS_KERATINOCTYE_DN
14	2e-09	7 / 16	GSEA: SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
15	2e-09	7 / 16	GSEA: ONDER_CDH1_TARGETS_3_DN
16	3e-08	6 / 13	BP: negative regulation of endopeptidase activity
17	3e-08	6 / 13	MF: negative regulation of peptidase activity
18	3e-08	11 / 79	CC: intermediate filament
19	5e-08	9 / 52	BP: negative regulation of endopeptidase activity
20	5e-08	6 / 16	GSEA: JAEGER_METASTASIS_DN
21	9e-08	6 / 16	GSEA: COLDREN_GEFITINIB_RESISTANCE_DN
22	9e-08	6 / 16	GSEA: CROMER_TUMORIGENESIS_DN
23	9e-08	6 / 16	MF: RAGE receptor binding
24	1e-07	8 / 38	CC: epithelial cell differentiation
25	2e-07	5 / 10	GSEA: KEGG_LINOLEIC_ACID_METABOLISM
26	2e-07	5 / 10	MF: anchored to membrane
27	3e-07	8 / 44	CC: keratin filament
28	6e-07	10 / 83	H.Tiss: WIRTH_Tonsil
29	1e-06	5 / 13	MF: serine-type peptidase activity
30	1e-06	8 / 53	GSEA: CHARAF_E_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP
31	2e-06	5 / 14	GSEA: RICKMAN_HEAD_AND_NECK_CANCER_E
32	2e-06	5 / 15	GSEA: LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
33	2e-06	5 / 15	GSEA: LEE_LIVER_CANCER_MYC_TGFA_UP
34	3e-06	5 / 16	GSEA: HUPER_BREAST_BASAL_VS_LUMINAL_UP
35	3e-06	5 / 16	MF: calcium ion binding
36	4e-06	25 / 579	BP: regulation of proteolysis
37	5e-06	6 / 29	GSEA: SMID_BREAST_CANCER_ERBB2_UP
38	1e-05	4 / 10	MF: protein binding, bridging
39	1e-05	7 / 51	CC: desmosome
40	1e-05	5 / 21	H.Tiss: WIRTH_Tonsil





K-Means Cluster

Spot Summary: U

metagenes = 22

genes = 241

<r> metagenes = 0.95

<r> genes = 0.38

beta: r2= 28.45 / log p= -Inf

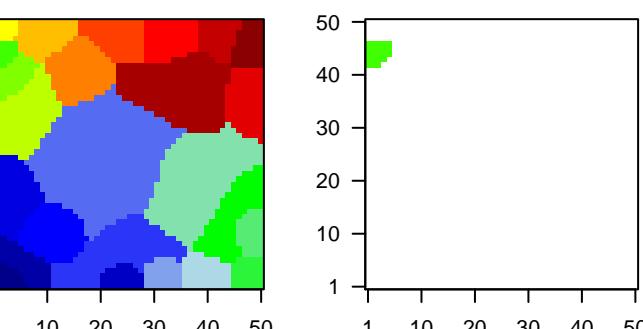
samples with spot = 89 (32.4 %)

Classical : 2 (6.2 %)

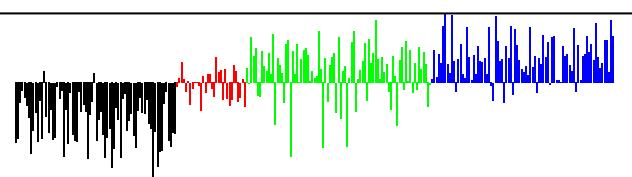
Mesenchymal : 36 (42.4 %)

Basal : 51 (60.7 %)

Overview Map



Spot



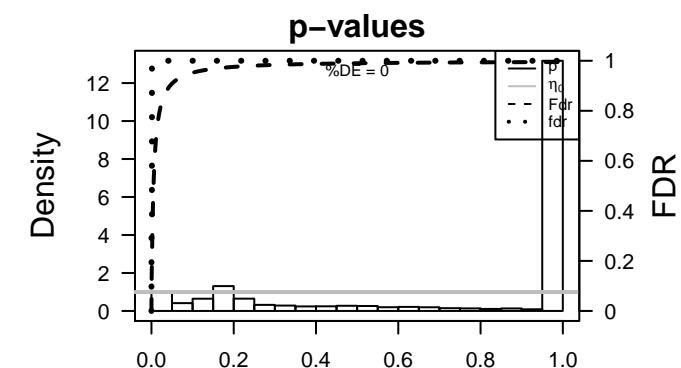
Spot Genelist

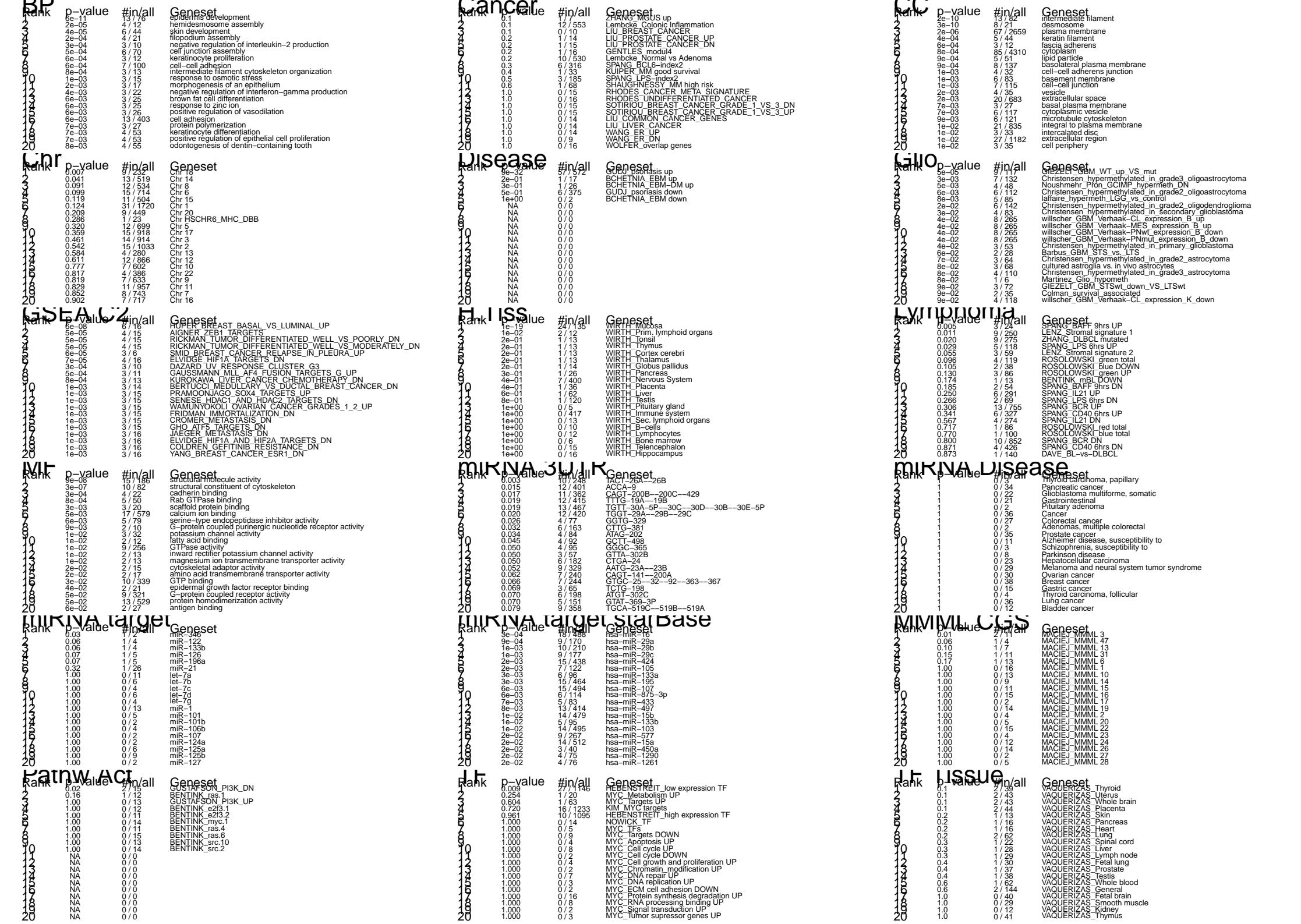
Rank	ID	max e	min e	r	Description	Symbol
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Rank	ID	max e	min e	r	Description	Symbol
1	2167	5.04	-2.11	0.33	FABP4	fatty acid binding protein 4, adipocyte [Source:HGNC Symbol]
2	374918	3.79	-1.25	0.43	IGFL1	IGF-like family member 1 [Source:HGNC Symbol;Acc:24093]
3	404203	3.3	-0.91	0.51	SPINK6	serine peptidase inhibitor, Kazal type 6 [Source:HGNC Symbol]
4	118430	3.17	-0.81	0.37	MUC11	mucin-like 1 [Source:HGNC Symbol;Acc:30588]
5	1041	3.12	-1.1	0.66	CDSN	corneodesmosin [Source:HGNC Symbol;Acc:1802]
6	151516	2.97	-1.01	0.52	ASPRV1	aspartic peptidase, retroviral-like 1 [Source:HGNC Symbol;A
7	3489	2.81	-2.42	0.59	IGFBP6	insulin-like growth factor binding protein 6 [Source:HGNC Sy
8	760	2.81	-2.26	0.69	CA2	carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
9	51200	2.78	-1.85	0.64	CPA4	carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
10	9119	2.63	-0.92	0.55	KRT75	keratin 75 [Source:HGNC Symbol;Acc:24431]
11	8710	2.62	-1.39	0.5	SERPINA1	serpin peptidase inhibitor, clade B (ovalbumin), member 7 [Sc
12	5947	2.61	-2.47	0.45	RBP1	retinol binding protein 1, cellular [Source:HGNC Symbol;Acc:
13	5744	2.59	-2.33	0.7	PTHLH	parathyroid hormone-like hormone [Source:HGNC Symbol;A
14	1823	2.59	-0.82	0.61	DSC1	desmocollin 1 [Source:HGNC Symbol;Acc:3035]
15	4753	2.56	-1.8	0.39	NELL2	NELL-like 2 (chicken) [Source:HGNC Symbol;Acc:7751]
16	55214	2.54	-2.24	0.56	LEPREL1	leprecan-like 1 [Source:HGNC Symbol;Acc:19317]
17	1308	2.51	-2.89	0.64	COL17A1	collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194
18	6273	2.51	-2.5	0.7	S100A2	S100 calcium binding protein A2 [Source:HGNC Symbol;Acc:
19	2352	2.48	-0.81	0.52	FOLR3	folate receptor 3 (gamma) [Source:HGNC Symbol;Acc:3795]
20	147495	2.48	-1.6	0.49	APCDD1	adenomatous polyposis coli down-regulated 1 [Source:HG

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-32	57 / 572	Disea GUDJ_psoriasis up
2	1e-19	24 / 135	H.Tiss WIRTH_Mucosa
3	6e-11	13 / 76	BP epidermis development
4	2e-10	13 / 82	CC intermediate filament
5	3e-10	8 / 21	CC desmosome
6	6e-08	6 / 16	GSE A HUPER_BREAST_BASAL_VS_LUMINAL_UP
7	9e-08	15 / 186	MF structural molecule activity
8	3e-07	10 / 82	MF structural constituent of cytoskeleton
9	2e-06	67 / 2659	CC plasma membrane
10	2e-05	4 / 12	BP hemidesmosome assembly
11	4e-05	6 / 44	BP skin development
12	5e-05	4 / 15	GSE AIGNER_ZEB1_TARGETS
13	5e-05	4 / 15	GSE RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN
14	5e-05	4 / 15	GSE RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_DN
15	5e-05	9 / 117	Glio GIEZELT_GBM_WT_up_VS_mut
16	6e-05	3 / 6	GSE SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
17	7e-05	4 / 16	GSE ELVIDGE_HIF1A_TARGETS_DN
18	2e-04	4 / 21	BP filopodium assembly
19	3e-04	4 / 22	MF cadherin binding
20	3e-04	18 / 488	miRN hsa-miR-16
21	3e-04	3 / 10	BP negative regulation of interleukin-2 production
22	3e-04	3 / 10	GSE DAZARD_UV_RESPONSE_CLUSTER_G3
23	4e-04	5 / 44	CC keratin filament
24	5e-04	3 / 11	GSE GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP
25	5e-04	6 / 70	BP cell junction assembly
26	6e-04	3 / 12	CC fascia adherens
27	6e-04	3 / 12	BP keratinocyte proliferation
28	6e-04	7 / 100	BP cell-cell adhesion
29	8e-04	5 / 50	MF Rab GTPase binding
30	8e-04	3 / 13	BP intermediate filament cytoskeleton organization
31	8e-04	3 / 13	GSE KUROKAWA_LIVER_CANCER_CHEMOTHERAPY_DN
32	8e-04	85 / 4310	CC cytoplasm
33	9e-04	5 / 51	CC lipid particle
34	9e-04	9 / 170	miRN hsa-miR-29a
35	9e-04	8 / 137	CC basolateral plasma membrane
36	1e-03	3 / 14	GSE BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN
37	1e-03	10 / 210	miRN hsa-miR-29b
38	1e-03	4 / 32	CC cell-cell adherens junction
39	1e-03	9 / 177	miRN hsa-miR-29c
40	1e-03	3 / 15	BP response to osmotic stress





K-Means Cluster

Spot Summary: V

metagenes = 48
genes = 395

<r> metagenes = 0.93

<r> genes = 0.25

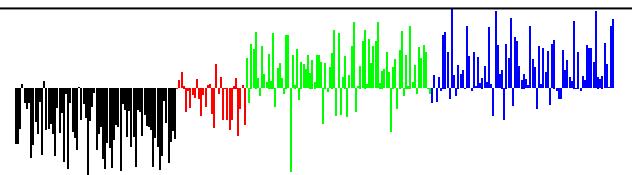
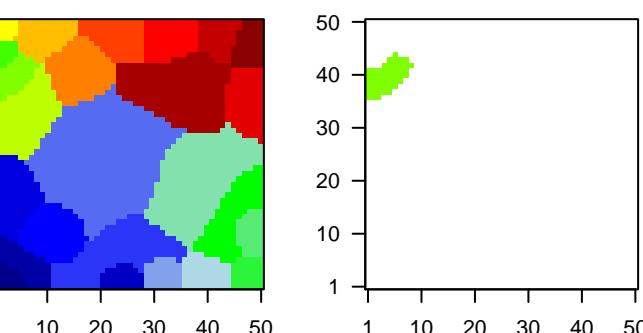
beta: r2= 7.98 / log p= -Inf

samples with spot = 25 (9.1 %)

Mesenchymal : 12 (14.1 %)

Basal : 13 (15.5 %)

Overview Map

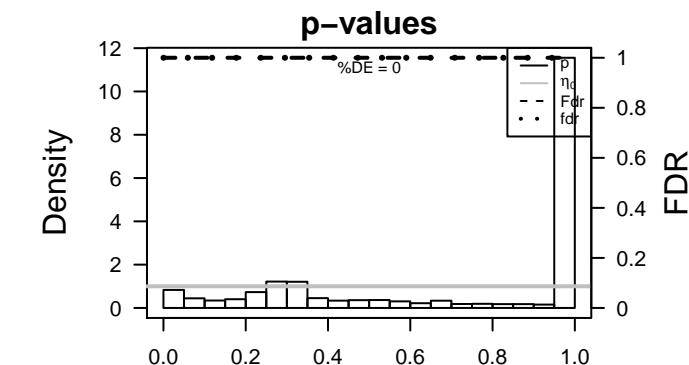


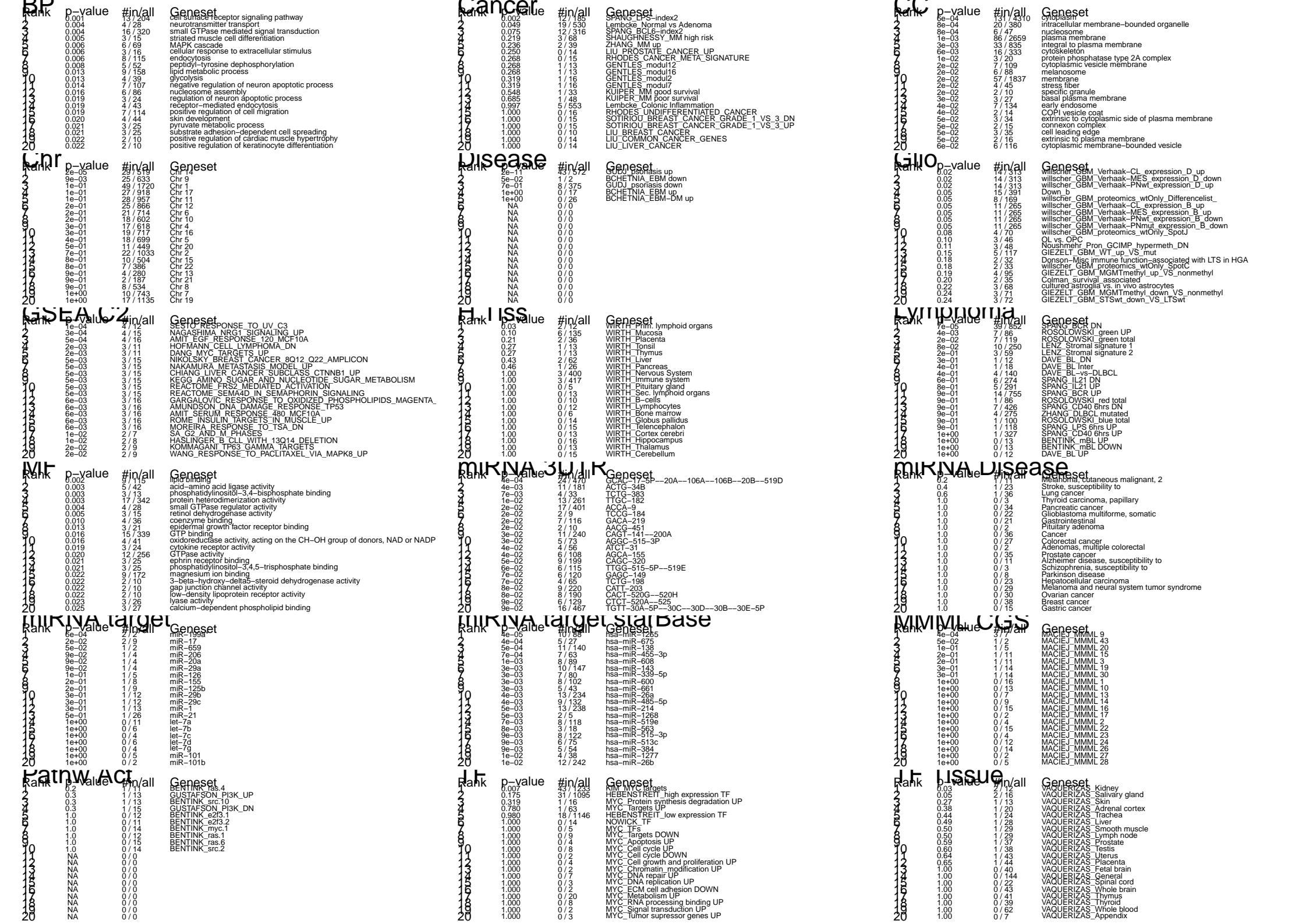
Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	780854	3.58	-1.9	0.24	SNORD3B	small nucleolar RNA, C/D box 3D [Source:HGNC Symbol;Acc:6664]	1	2e-11	43 / 572	Disea GUDJ_psoriasis up
2	780851	3.23	-1.91	0.23	SNORD3A	small nucleolar RNA, C/D box 3A [Source:HGNC Symbol;Acc:6663]	2	2e-05	29 / 519	Chr Chr 14
3	780853	3.15	-1.74	0.25	SNORD3C	small nucleolar RNA, C/D box 3C [Source:HGNC Symbol;Acc:6665]	3	4e-05	10 / 88	miRN hsa-miR-1265
4	2731	2.65	-0.96	0.22	GLDC	glycine dehydrogenase (decarboxylating) [Source:HGNC Symbol;Acc:6666]	4	7e-05	39 / 852	Lymph SPANG_BCR DN
5	4015	2.63	-1.39	0.41	LOX	lysyl oxidase [Source:HGNC Symbol;Acc:6664]	5	1e-04	4 / 12	GSEA SESTO_RESPONSE_TO_UV_C3
6	948	2.41	-0.99	0.34	CD36	CD36 molecule (thrombospondin receptor) [Source:HGNC Symbol;Acc:6667]	6	3e-04	4 / 15	GSEA NAGASHIMA_NRG1_SIGNALING_UP
7	387882	2.28	-1.59	0.37	C12orf75	chromosome 12 open reading frame 75 [Source:HGNC Symbol;Acc:6668]	7	4e-04	24 / 470	miRN GCAC-17-5P--20A--106A--106B--20B--519D
8	84259	2.28	-1.19	0.4	DCUN1D1	DCN1, defective in cullin neddylation 1, domain containing 5 [Source:HGNC Symbol;Acc:6669]	8	4e-04	5 / 27	miRN hsa-miR-675
9	135398	2.22	-1	0.39	C6orf141	chromosome 6 open reading frame 141 [Source:HGNC Symbol;Acc:6670]	9	4e-04	3 / 7	MMM MACIEJ_MMML 9
10	8339	2.1	-1.01	0.37	HIST1H2B	histone cluster 1, H2bc [Source:HGNC Symbol;Acc:4757]	10	5e-04	4 / 16	GSEA AMIT_EGF_RESPONSE_120_MCF10A
11	200315	2.02	-0.86	0.45	APOBEC3A	apolipoprotein B mRNA editing enzyme, catalytic polypeptide like 3A [Source:HGNC Symbol;Acc:6671]	11	5e-04	11 / 140	miRN hsa-miR-138
12	353141	1.96	-0.38	0.43	LCE2D	late cornified envelope 2D [Source:HGNC Symbol;Acc:16518]	12	6e-04	2 / 2	miRN miR-199a*
13	723790	1.91	-1.5	0.35	HIST2H2AA1	histone cluster 2, H2aa3 [Source:HGNC Symbol;Acc:4736]	13	6e-04	131 / 4310	CC cytoplasm
14	1466	1.9	-1.81	0.32	CSRP2	cysteine and glycine-rich protein 2 [Source:HGNC Symbol;Acc:6672]	14	7e-04	7 / 63	miRN hsa-miR-455-3p
15	8942	1.87	-1.87	0.32	KYNU	kynureninase [Source:HGNC Symbol;Acc:6469]	15	8e-04	20 / 380	CC intracellular membrane–bounded organelle
16	1984	1.86	-1.04	0.35	EIF5A	eukaryotic translation initiation factor 5A [Source:HGNC Symbol;Acc:6673]	16	8e-04	6 / 47	CC nucleosome
17	80117	1.84	-0.9	0.38	ARL14	ADP-ribosylation factor-like 14 [Source:HGNC Symbol;Acc:29469]	17	1e-03	13 / 204	BP cell surface receptor signaling pathway
18	148304	1.78	-1.23	0.51	C1orf74	chromosome 1 open reading frame 74 [Source:HGNC Symbol;Acc:6674]	18	1e-03	8 / 89	miRN hsa-miR-608
19	5091	1.78	-0.99	0.55	PC	pyruvate carboxylase [Source:HGNC Symbol;Acc:8636]	19	1e-03	86 / 2659	CC plasma membrane
20	353139	1.76	-0.36	0.48	LCE2A	late cornified envelope 2A [Source:HGNC Symbol;Acc:29469]	20	2e-03	12 / 185	Cancer SPANG_LPS-index2

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-11	43 / 572	Disea GUDJ_psoriasis up
2	2e-05	29 / 519	Chr Chr 14
3	4e-05	10 / 88	miRN hsa-miR-1265
4	7e-05	39 / 852	Lymph SPANG_BCR DN
5	1e-04	4 / 12	GSEA SESTO_RESPONSE_TO_UV_C3
6	3e-04	4 / 15	GSEA NAGASHIMA_NRG1_SIGNALING_UP
7	4e-04	24 / 470	miRN GCAC-17-5P--20A--106A--106B--20B--519D
8	4e-04	5 / 27	miRN hsa-miR-675
9	4e-04	3 / 7	MMM MACIEJ_MMML 9
10	5e-04	4 / 16	GSEA AMIT_EGF_RESPONSE_120_MCF10A
11	5e-04	11 / 140	miRN hsa-miR-138
12	6e-04	2 / 2	miRN miR-199a*
13	6e-04	131 / 4310	CC cytoplasm
14	7e-04	7 / 63	miRN hsa-miR-455-3p
15	8e-04	20 / 380	CC intracellular membrane–bounded organelle
16	8e-04	6 / 47	CC nucleosome
17	1e-03	13 / 204	BP cell surface receptor signaling pathway
18	1e-03	8 / 89	miRN hsa-miR-608
19	1e-03	86 / 2659	CC plasma membrane
20	2e-03	12 / 185	Cancer SPANG_LPS-index2





K-Means Cluster

Spot Summary: W

metagenes = 142

genes = 556

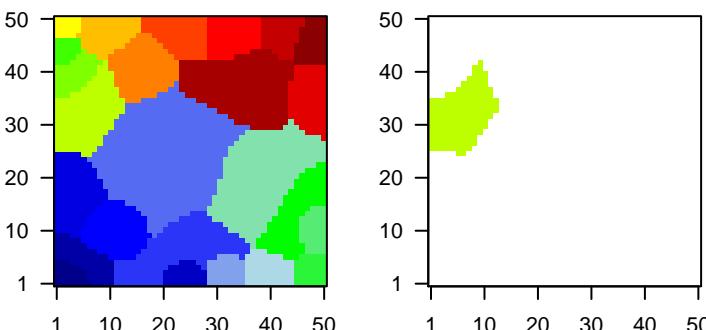
<r> metagenes = 0.86

<r> genes = 0.15

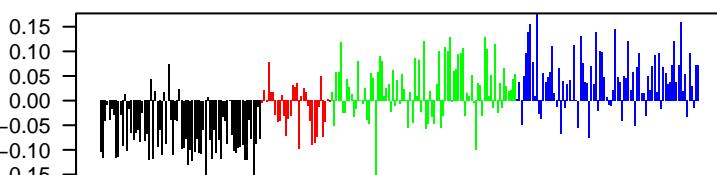
beta: r2= 1.55 / log p= -Inf

samples with spot = 0 (0 %)

Overview Map



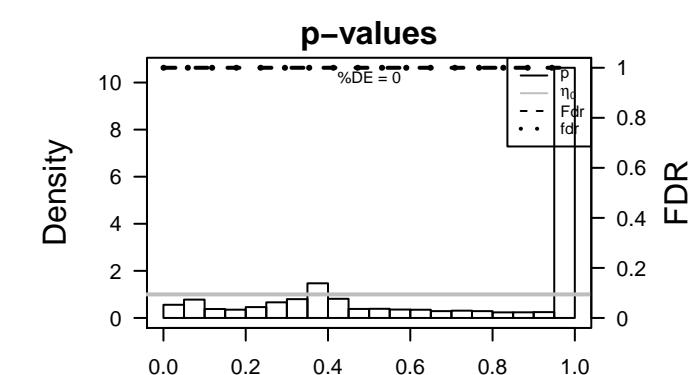
Spot

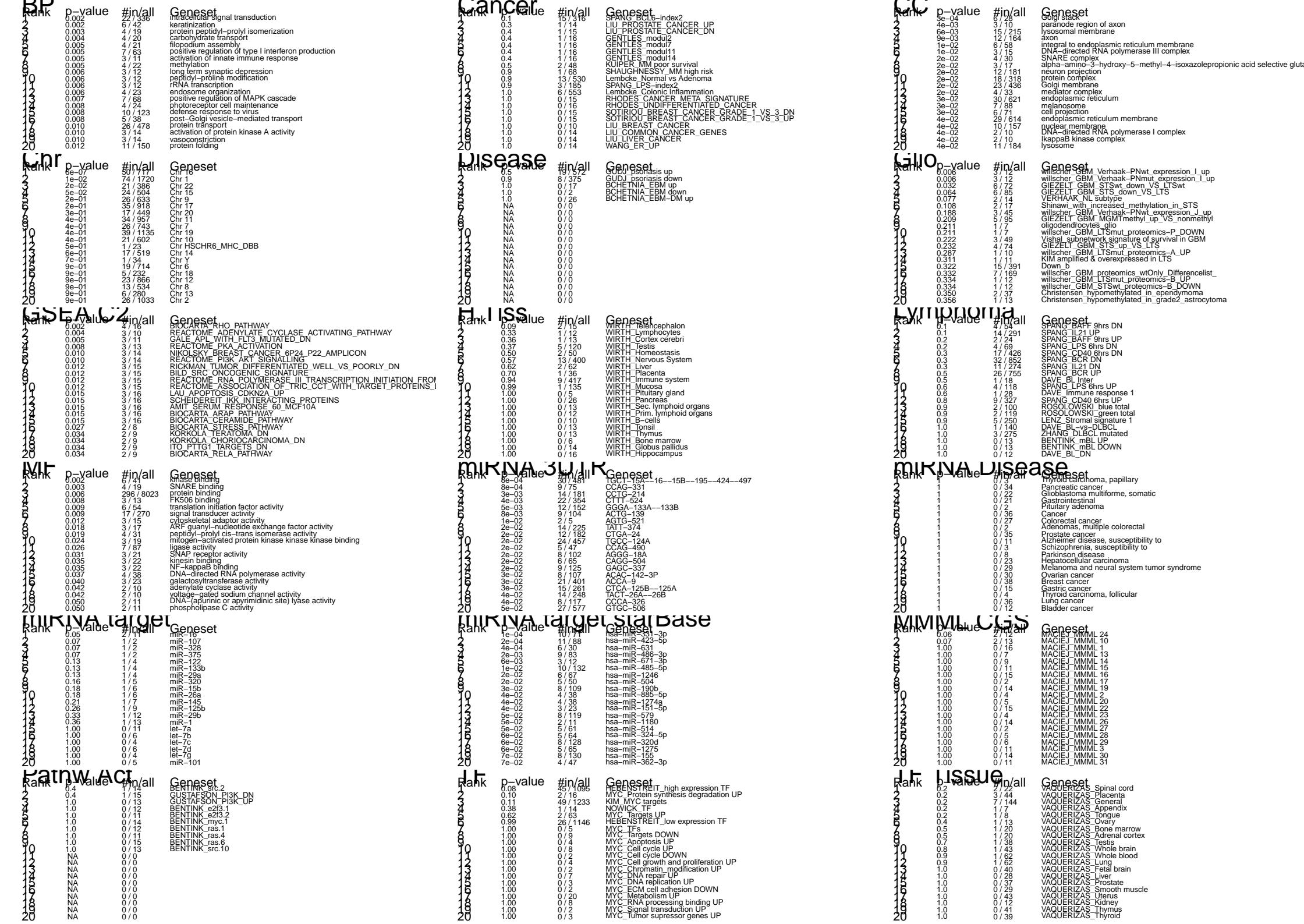


Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol	Rank	p-value	#in/all	Geneset
1	1907	1.81	-0.7	0.26	EDN2 endothelin 2 [Source:HGNC Symbol;Acc:3177]		1	6e-07	50 / 717	Chr Chr 16
2	170680	1.71	-0.44	0.43	PSORS1 psoriasis susceptibility 1 candidate 2 [Source:HGNC Symbol;Acc:3178]		2	1e-04	10 / 71	miRN hsa-miR-331-3p
3	10809	1.35	-0.99	0.37	STARD1 STAR-related lipid transfer (START) domain containing 10 [Source:HGNC Symbol;Acc:3179]		3	2e-04	11 / 88	miRN hsa-miR-423-5p
4	159686	1.31	-0.36	0.27	CCDC147 coiled-coil domain containing 147 [Source:HGNC Symbol;Acc:3180]		4	3e-04	6 / 28	CC Golgi stack
5	55004	1.29	-0.83	0.32	LAMTOR1 late endosomal/lysosomal adaptor, MAPK and MTOR activat		5	4e-04	6 / 30	miRN hsa-miR-631
6	388555	1.27	-0.5	0.3	IGFL3 IGF-like family member 3 [Source:HGNC Symbol;Acc:32930]		6	8e-04	30 / 481	miRN TGCT-15A---16---15B---195---424---497
7	83648	1.26	-0.67	0.22	FAM167A family with sequence similarity 167, member A [Source:HGNC Symbol;Acc:32931]		7	8e-04	9 / 75	miRN CCAG-331
8	8689	1.24	-0.35	0.55	KRT36 keratin 36 [Source:HGNC Symbol;Acc:6454]		8	2e-03	4 / 16	GSE/ BIOCARTA_RHO_PATHWAY
9	118663	1.24	-0.39	0.34	BTBD16 BTB (POZ) domain containing 16 [Source:HGNC Symbol;Acc:6455]		9	2e-03	9 / 83	miRN hsa-miR-486-3p
10	7172	1.22	-1.1	0.21	TPMT thiopurine S-methyltransferase [Source:HGNC Symbol;Acc:1		10	2e-03	22 / 336	BP intracellular signal transduction
11	9914	1.19	-0.65	0.41	ATP2C2 ATPase, Ca++ transporting, type 2C, member 2 [Source:HGNC Symbol;Acc:1520]		11	2e-03	6 / 41	MF kinase binding
12	4821	1.17	-0.26	0.28	NKX2-2 NK2 homeobox 2 [Source:HGNC Symbol;Acc:7835]		12	2e-03	6 / 42	BP keratinization
13	389084	1.16	-0.41	0.35	C2orf82 chromosome 2 open reading frame 82 [Source:HGNC Symbol;Acc:7836]		13	3e-03	14 / 181	miRN CCTG-214
14	6326	1.15	-0.34	0.3	SCN2A sodium channel, voltage-gated, type II, alpha subunit [Source:HGNC Symbol;Acc:7837]		14	3e-03	4 / 19	BP protein peptidyl-prolyl isomerization
15	9764	1.12	-0.63	0.32	KIAA0512 KIAA0513 [Source:HGNC Symbol;Acc:29058]		15	3e-03	4 / 19	MF SNARE binding
16	9322	1.11	-0.83	0.48	TRIP10 thyroid hormone receptor interactor 10 [Source:HGNC Symbol;Acc:31824]		16	4e-03	3 / 10	CC paranode region of axon
17	1606	1.11	-0.91	0.34	DGKA diacylglycerol kinase, alpha 80kDa [Source:HGNC Symbol;Acc:31825]		17	4e-03	3 / 10	GSE/ REACTOME_ADENYLYL_CYCLASE_ACTIVATING_PATHWAY
18	23085	1.1	-0.81	0.32	ERC1 ELKS/RAB6-interacting/CAST family member 1 [Source:HGNC Symbol;Acc:31826]		18	4e-03	22 / 354	miRN CTTT-524
19	2582	1.08	-0.82	0.53	GALE UDP-galactose-4-epimerase [Source:HGNC Symbol;Acc:4104]		19	4e-03	4 / 20	BP carbohydrate transport
20	448835	1.08	-0.23	0.42	LCE6A late cornified envelope 6A [Source:HGNC Symbol;Acc:31824]		20	5e-03	4 / 21	BP filopodium assembly
							21	5e-03	7 / 63	BP positive regulation of type I interferon production
							22	5e-03	12 / 152	miRN GGGAA-133A---133B
							23	5e-03	3 / 11	BP activation of innate immune response
							24	5e-03	3 / 11	GSE/ GALE_AP1_WITH_FLT3_MUTATED_DN
							25	5e-03	4 / 22	BP methylation
							26	6e-03	15 / 215	CC lysosomal membrane
							27	6e-03	296 / 8023	MF protein binding
							28	6e-03	3 / 12	BP long term synaptic depression
							29	6e-03	3 / 12	BP peptidyl-prolyl modification
							30	6e-03	3 / 12	BP rRNA transcription
							31	6e-03	3 / 12	Glio willscher_GBM_Verhaak-PNwt_expression_l_up
							32	6e-03	3 / 12	Glio willscher_GBM_Verhaak-PNmut_expression_l_up
							33	6e-03	3 / 12	miRN hsa-miR-671-3p
							34	6e-03	4 / 23	BP endosome organization
							35	7e-03	7 / 68	BP positive regulation of MAPK cascade
							36	8e-03	4 / 24	BP photoreceptor cell maintenance
							37	8e-03	9 / 104	miRN ACTG-139
							38	8e-03	10 / 123	BP defense response to virus
							39	8e-03	5 / 38	BP post-Golgi vesicle-mediated transport
							40	8e-03	3 / 13	MF FK506 binding

Geneset Overrepresentation





K-Means Cluster

Spot Summary: X

metagenes = 68
genes = 585

<r> metagenes = 0.83

<r> genes = 0.2

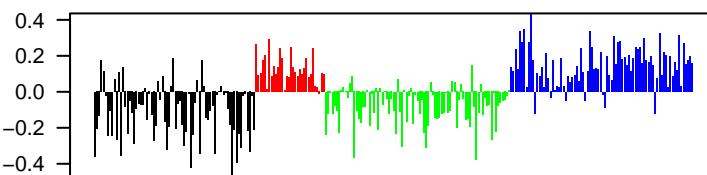
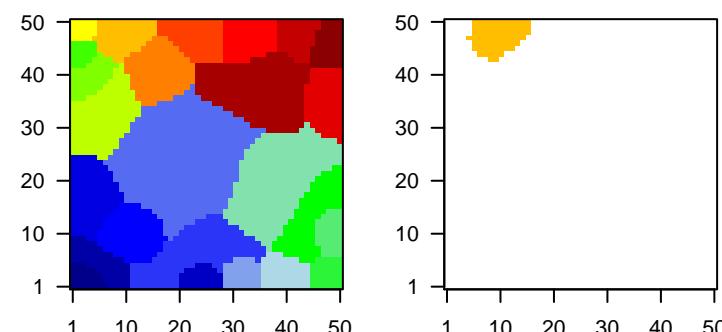
beta: r2= 8.97 / log p= -Inf

samples with spot = 25 (9.1 %)

Classical : 5 (15.6 %)

Basal : 20 (23.8 %)

Overview Map



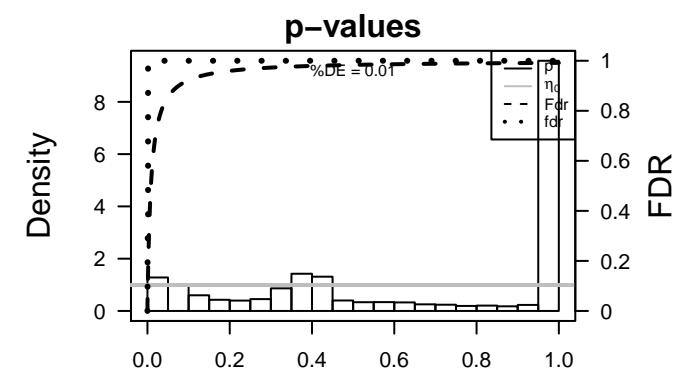
Spot Genelist

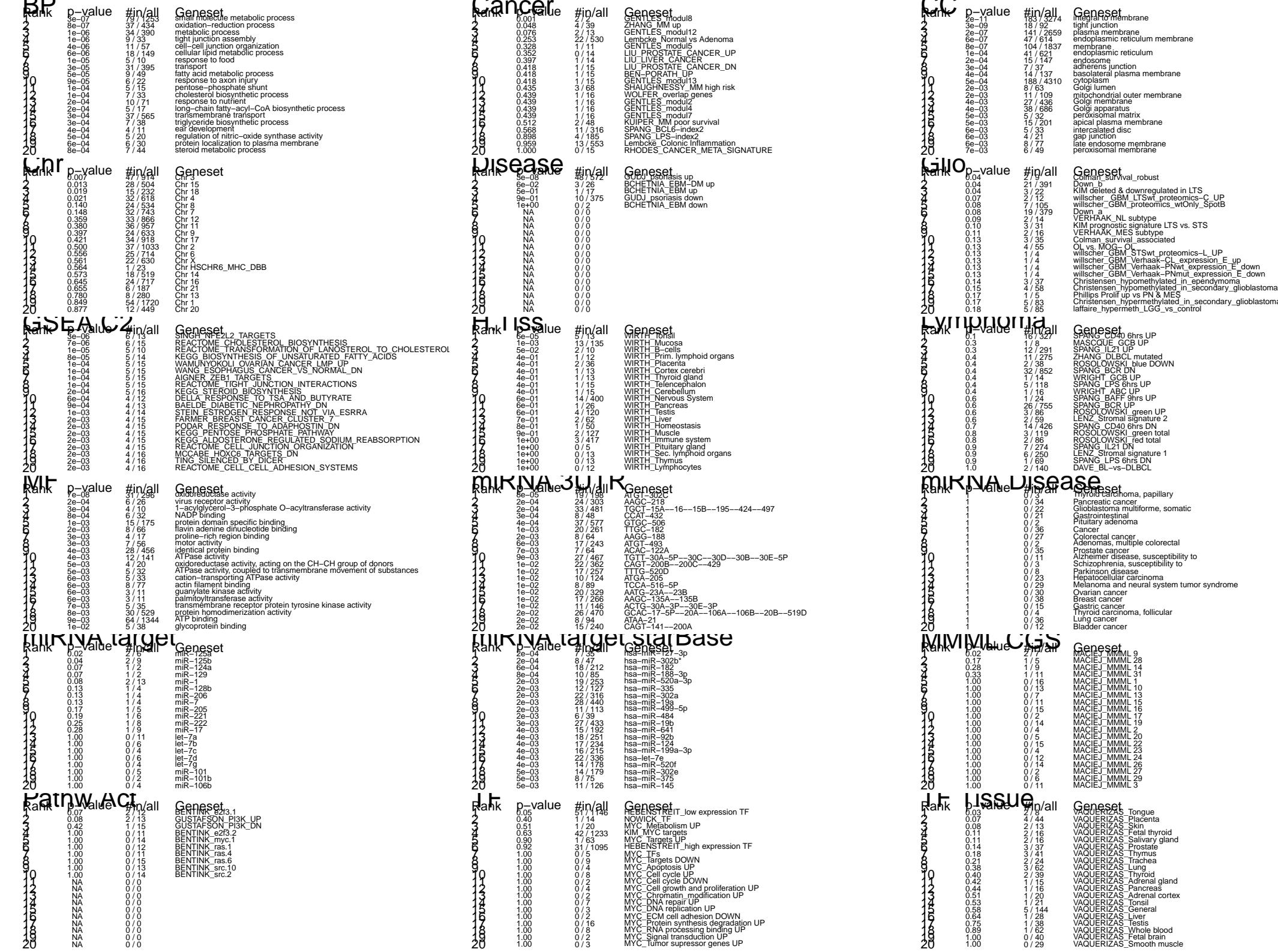
Rank	ID	max e	min e	r	Description	Symbol
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1	1109	3.73	-2.74	0.69	AKR1C4 aldo-keto reductase family 1, member C4 [Source:HGNC Symbol;Acc:2918]	
2	57834	2.91	-1.53	0.7	CYP4F11cytochrome P450, family 4, subfamily F, polypeptide 11 [Source:HGNC Symbol;Acc:2918]	
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	5327	2.56	-1.74	0.35	PLAT plasminogen activator, tissue [Source:HGNC Symbol;Acc:905]	
7	140809	2.51	-1.38	0.73	SRXN1 sulfiredoxin 1 [Source:HGNC Symbol;Acc:16132]	
8	9073	2.47	-0.88	0.44	CLDN8 claudin 8 [Source:HGNC Symbol;Acc:2050]	
9	5413	2.39	-1.75	0.34	SEPT5 septin 5 [Source:HGNC Symbol;Acc:9164]	
10	7102	2.39	-1.41	0.4	TSPAN7 tetraspanin 7 [Source:HGNC Symbol;Acc:11854]	
11	3485	2.34	-2.39	0.36	IGFBP2 insulin-like growth factor binding protein 2, 36kDa [Source:HGNC Symbol;Acc:2918]	
12	5217	2.22	-2.55	0.59	PFN2 profilin 2 [Source:HGNC Symbol;Acc:8882]	
13	479	2.22	-0.66	0.39	ATP12A ATPase, H+/K+ transporting, nongastric, alpha polypeptide [Source:HGNC Symbol;Acc:2918]	
14	10135	2.15	-1.34	0.38	NAMPT nicotinamide phosphoribosyltransferase [Source:HGNC Symbol;Acc:2918]	
15	7062	2.14	-0.7	0.4	TCHH trichohyalin [Source:HGNC Symbol;Acc:11791]	
16	200958	2.1	-1.52	0.57	MUC20 mucin 20, cell surface associated [Source:HGNC Symbol;Acc:2918]	
17	7296	2.07	-0.96	0.54	TXNRD1 thioredoxin reductase 1 [Source:HGNC Symbol;Acc:12437]	
18	493861	2.06	-0.82	0.49	EID3 EP300 interacting inhibitor of differentiation 3 [Source:HGNC Symbol;Acc:2918]	
19	10457	2.06	-2.32	0.42	GPNMB glycoprotein (transmembrane) nmb [Source:HGNC Symbol;Acc:2918]	
20	2064	2.05	-1.36	0.52	ERBB2 v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 [Source:HGNC Symbol;Acc:2918]	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-11	183 / 3274	CC integral to membrane
2	3e-09	18 / 92	CC tight junction
3	3e-08	48 / 572	Disea GUDU_psoriasis up
4	7e-08	31 / 296	MF oxidoreductase activity
5	2e-07	141 / 2659	CC plasma membrane
6	3e-07	79 / 1253	BP small molecule metabolic process
7	6e-07	47 / 614	endoplasmic reticulum membrane
8	8e-07	104 / 1837	CC membrane
9	8e-07	37 / 434	BP oxidation-reduction process
10	1e-06	34 / 390	BP metabolic process
11	1e-06	9 / 33	BP tight junction assembly
12	3e-06	6 / 13	GSE/ SINGH_NFE2L2_TARGETS
13	4e-06	11 / 57	BP cell-cell junction organization
14	6e-06	18 / 149	BP cellular lipid metabolic process
15	7e-06	6 / 15	GSE/ REACTOME_CHOLESTEROL BIOSYNTHESIS
16	1e-05	5 / 10	BP response to food
17	1e-05	5 / 10	GSE/ REACTOME_TRANSFORMATION_OF_LANOSTEROL_TO_CHOLESTEROL
18	3e-05	31 / 395	BP transport
19	5e-05	9 / 49	BP fatty acid metabolic process
20	6e-05	5 / 13	H.Tis: WIRTH_Tonsil
21	8e-05	19 / 198	miRN ATGT-302C
22	8e-05	5 / 14	GSE/ KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS
23	9e-05	6 / 22	BP response to axon injury
24	1e-04	41 / 621	CC endoplasmic reticulum
25	1e-04	5 / 15	BP pentose-phosphate shunt
26	1e-04	5 / 15	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
27	1e-04	5 / 15	GSE/ WANG_ESOPHAGUS_CANCER_VS_NORMAL_DN
28	1e-04	5 / 15	GSE/ AIGNER_ZEB1_TARGETS
29	1e-04	5 / 15	GSE/ REACTOME_TIGHT_JUNCTION_INTERACTIONS
30	1e-04	7 / 33	BP cholesterol biosynthetic process
31	2e-04	5 / 16	GSE/ KEGG_STEROID_BIOSYNTHESIS
32	2e-04	10 / 71	BP response to nutrient
33	2e-04	7 / 35	miRN hsa-miR-127-3p
34	2e-04	24 / 303	miRN AAGC-218
35	2e-04	8 / 47	miRN hsa-miR-302b*
36	2e-04	15 / 147	CC endosome
37	2e-04	33 / 481	miRN TGCT-15A-16-15B-195-424--497
38	2e-04	5 / 17	BP long-chain fatty-acyl-CoA biosynthetic process
39	2e-04	6 / 26	MF virus receptor activity
40	3e-04	37 / 565	BP transmembrane transport





K-Means Cluster

Spot Summary: Y

metagenes = 73

genes = 734

$\langle r \rangle$ metagenes = 0.88

$\langle r \rangle$ genes = 0.2

beta: $r^2 = 3.43$ / log p= -Inf

samples with spot = 10 (3.6 %)

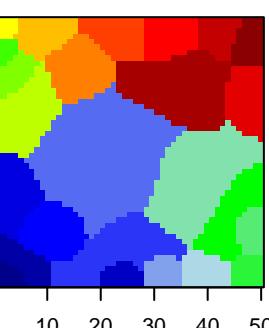
Atypical : 1 (1.4 %)

Classical : 1 (3.1 %)

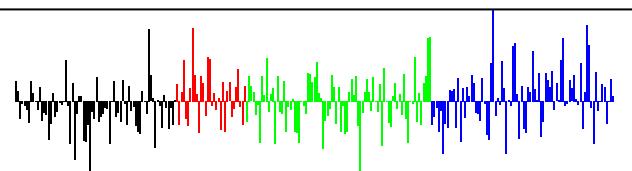
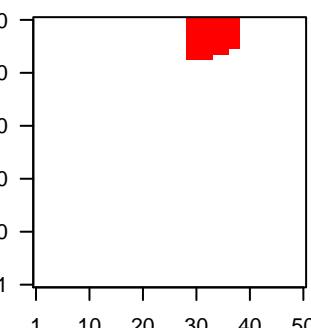
Mesenchymal : 2 (2.4 %)

Basal : 6 (7.1 %)

Overview Map



Spot



Spot Genelist

Rank	ID	max e	min e	r	Description	Symbol
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1	55915	1.8	-0.75	0.34	LANCL2 LanC lantibiotic synthetase component C-like 2 (bacterial) [Source:HGNC Symbol;Acc:21052]	S
2	5321	1.65	-0.85	0.46	PLA2G4A phospholipase A2, group IVA (cytosolic, calcium-dependent)	
3	1207	1.52	-1.35	0.49	CLNS1A chloride channel, nucleotide-sensitive, 1A [Source:HGNC Symbol;Acc:21051]	
4	54802	1.51	-0.79	0.47	tRNA isopentenyltransferase 1 [Source:HGNC Symbol;Acc:21053]	TRIT1
5	144363	1.49	-0.94	0.49	LYRM5 LYR motif containing 5 [Source:HGNC Symbol;Acc:27052]	
6	100093630	1.47	-1.34	0.27	SNHG8 small nucleolar RNA host gene 8 (non-protein coding) [Source:HGNC Symbol;Acc:21054]	
7	84833	1.42	-0.97	0.4	USMG5 up-regulated during skeletal muscle growth 5 homolog (mouse)	
8	5723	1.39	-0.48	0.53	PSPH phosphoserine phosphatase [Source:HGNC Symbol;Acc:957]	
9	5423	1.39	-1.04	0.26	POLB polymerase (DNA directed), beta [Source:HGNC Symbol;Acc:21055]	
10	401505	1.36	-0.87	0.59	TOMM5 translocase of outer mitochondrial membrane 5 homolog (yeast)	
11	51142	1.36	-0.79	0.45	CHCHD2 coiled-coil-helix-coiled-coil-helix domain containing 2 [Source:HGNC Symbol;Acc:21056]	
12	139886	1.35	-1.31	0.32	SPIN4 spindlin family, member 4 [Source:HGNC Symbol;Acc:27040]	
13	55848	1.34	-0.94	0.45	PLGRKT plasminogen receptor, C-terminal lysine transmembrane protein	
14	388722	1.27	-0.85	0.53	C1orf53 chromosome 1 open reading frame 53 [Source:HGNC Symbol;Acc:21057]	
15	51504	1.25	-0.91	0.45	TRMT112 RNA methyltransferase 11-2 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:21058]	
16	3301	1.23	-1.12	0.29	DNAJA1 DnaJ (Hsp40) homolog, subfamily A, member 1 [Source:HGNC Symbol;Acc:21059]	
17	6154	1.21	-0.73	0.6	RPL26 ribosomal protein L26 [Source:HGNC Symbol;Acc:10327]	
18	57001	1.21	-0.8	0.6	ACN9 ACN9 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:21060]	
19	27257	1.21	-0.84	0.36	LSM1 LSM1 homolog, U6 small nuclear RNA associated (S. cerevisiae)	
20	6160	1.2	-0.91	0.56	RPL31 ribosomal protein L31 [Source:HGNC Symbol;Acc:10334]	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-37	165 / 1318	CC mitochondrial
2	5e-26	58 / 253	BP translation
3	2e-24	44 / 153	structural constituent of ribosome
4	1e-23	33 / 83	BP respiratory electron transport chain
5	9e-22	58 / 304	CC mitochondrial inner membrane
6	6e-20	41 / 167	CC ribosome
7	5e-19	124 / 1233	TF KIM_MYC targets
8	7e-19	38 / 152	BP cellular metabolic process
9	2e-18	82 / 649	BP gene expression
10	8e-16	48 / 287	BP viral process
11	2e-15	29 / 109	SRP-dependent cotranslational protein targeting to membrane
12	2e-13	24 / 87	BP translational termination
13	3e-13	40 / 242	BP RNA metabolic process
14	3e-13	23 / 81	BP viral transcription
15	8e-13	24 / 92	BP translational elongation
16	1e-12	28 / 128	BP translational initiation
17	3e-12	26 / 115	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
18	6e-12	36 / 219	BP mRNA metabolic process
19	6e-12	23 / 92	BP viral life cycle
20	6e-11	63 / 595	MF RNA binding
21	7e-11	55 / 482	BP cellular protein metabolic process
22	1e-10	14 / 36	CC mitochondrial respiratory chain complex I
23	8e-10	13 / 34	MF NADH dehydrogenase (ubiquinone) activity
24	9e-10	11 / 23	CC mitochondrial ribosome
25	1e-09	13 / 35	BP mitochondrial electron transport, NADH to ubiquinone
26	3e-09	15 / 51	CC cytosolic large ribosomal subunit
27	3e-08	7 / 10	CC large ribosomal subunit
28	3e-08	9 / 19	CC mitochondrial proton-transporting ATP synthase complex
29	7e-07	23 / 163	BP mRNA splicing, via spliceosome
30	9e-07	9 / 26	MF cytochrome-c oxidase activity
31	1e-06	7 / 15	BP ATP synthesis coupled proton transport
32	2e-06	51 / 579	CC nucleolus
33	2e-06	7 / 16	Canc GENTLES_modul10
34	3e-06	6 / 11	Canc GENTLES_modul5
35	3e-06	6 / 11	MMM MACIEJ_MMML_49
36	4e-06	16 / 96	BP rRNA processing
37	9e-06	6 / 13	GSE/ REACTOME_FORMATION_OF_ATP_BY_CHEMIOSMOTIC_COUPLING
38	2e-05	6 / 14	BP mitochondrial ATP synthesis coupled proton transport
39	2e-05	5 / 9	GSE/ REACTOME_FORMATION_OF_A_POOL_OF_FREE_40S_SUBUNITS
40	2e-05	5 / 9	GSE/ GTP_HYDROLYSIS_AND_JOINING_OF_THE_60S_RIBOSOME

