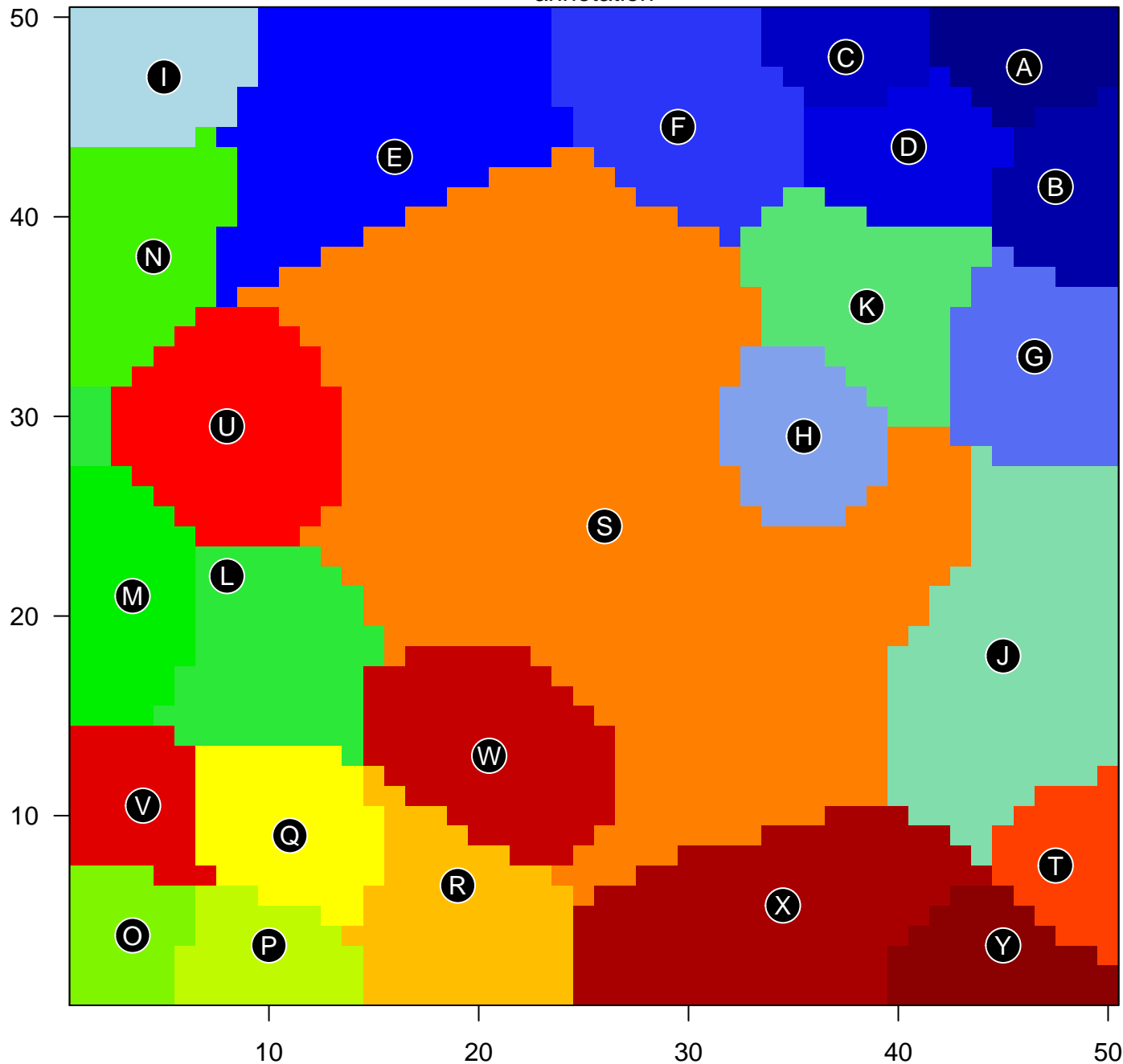


K-Means Cluster

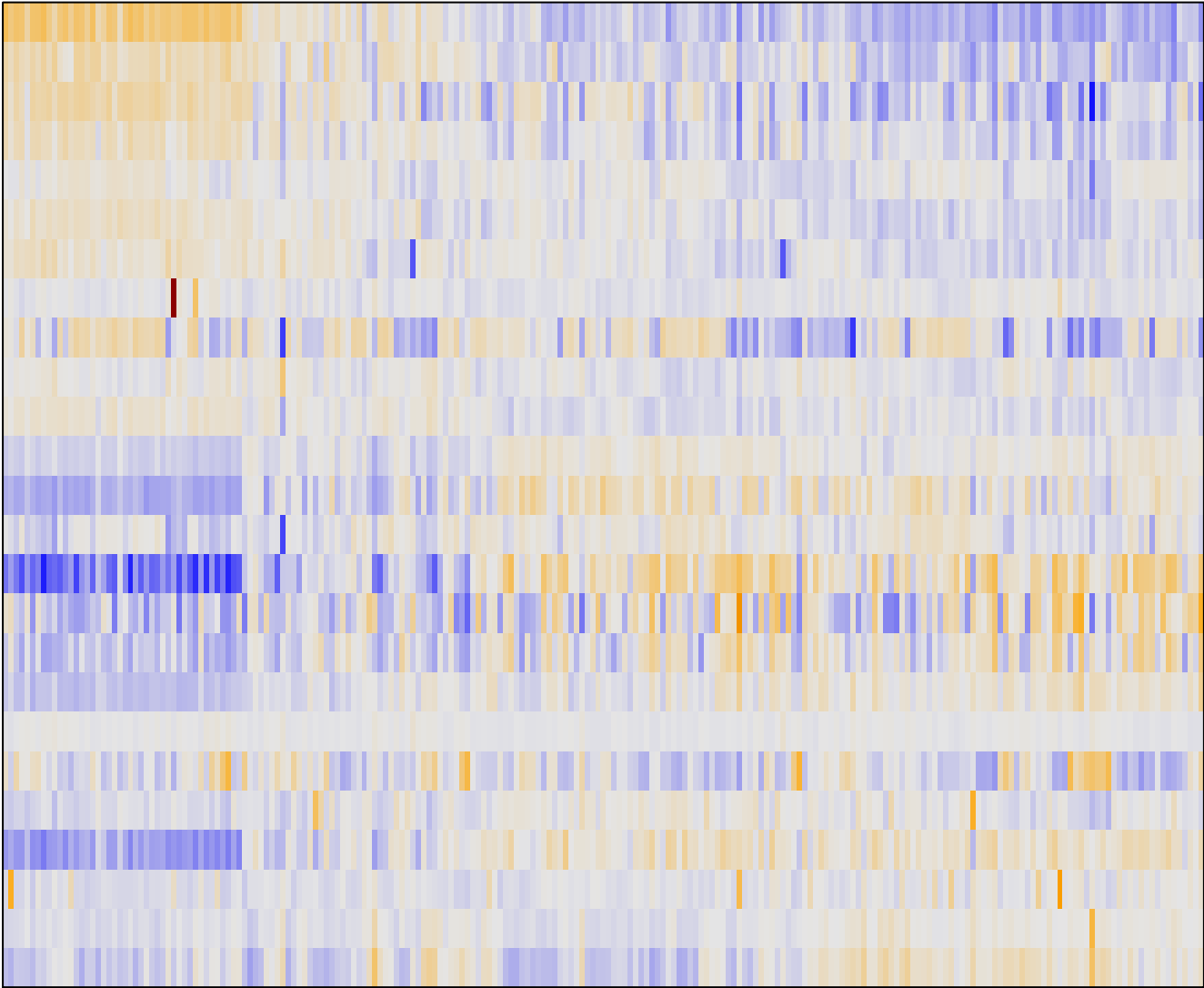
annotation



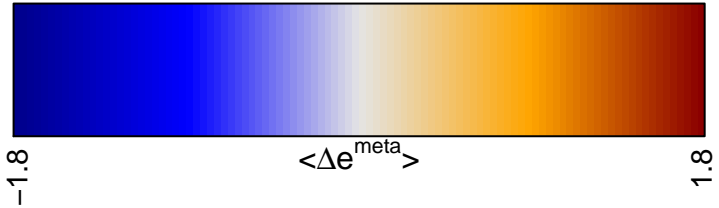
- A ■ HUMMEL_BURKITTIS_LYMPHOMA_UP
Sha_BL UP
- B ■ Bcells peripheral blood_4_Tx
natural killer cells peripheral blood_4_Tx
- C ■ WILLSCHER_GBM_Verhaak-CL_up (C)
Gerber_wt/wt_melanoma-cells-SpotA
- D ■ Tcells peripheral blood_2_TssAFInk
Bcells peripheral blood_1_TssA
- E ■ Bcells peripheral blood_1_TssA
HOPP_Txn_elongation
- F ■ monocytes peripheral blood_1_TssA
Tcells peripheral blood_2_TssAFInk
- G ■ HOPP_Txn_elongation
Bcells peripheral blood_4_Tx
- H ■ WIRTH_Liver
HSIAO_LIVER_SPECIFIC_GENES
- I ■ WILLSCHER_GBM_Verhaak-PNwt & CL_up
Bcells peripheral blood_4_Tx
- J ■ RICKMAN_HEAD_AND_NECK_CANCER_F
WIRTH_Muscle
- K ■ RNA binding
translation
- L ■ Thelper cells peripheral blood_1_TssA
Tcells peripheral blood_1_TssA
- M ■ SPANG_BCL6-index2
Bcells peripheral blood_2_TssAFInk
- N ■ Bcells peripheral blood_1_TssA
Tcells peripheral blood_1_TssA
- O ■ Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_0
ScoV_0.999_Sturm_E4_Mesenchymal_RTK I 'PDGFRA'_D
- P ■ LENZ_Stromal signature 1
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
- Q ■ Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_0
immune system process
- R ■ 2_TssA_Skeletal_Muscle
4_TxTrans_Fibroblasts
- S ■ HOPP_Repressed
LaPointe_mucosa-position_kmeans_F_cecum_colon_trans
- T ■ LaPointe_mucosa-position_kmeans_E_transverse_colon_U
Chaussabel_3,8_Enzymes
- U ■ endoplasmic reticulum
TARTE_Plasma cell signature
- V ■ SPANG_BCL6-index2
monocytes peripheral blood_6_EnhG
- W ■ WIRTH_Mucosa
JAEGER_METASTASIS_DN



A
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HUMMEL_BURKITTs_LYMPHOMA_UP
Bcells peripheral blood_2_TssAFInk
Bcells peripheral blood_4_Tx
Natural killer cells peripheral blood_4_TssA
WILLSCHER_GBM_Verhaak_CL_up(C)
Gatherer_WW1_melanoma_posit_5_upA
KINSEY_TARGETS_OF_EWSR1_PFL1_FUSION_UP
Tcells peripheral blood_2_TssAFInk
Bcells peripheral blood_1_TssA
Bcells peripheral blood_2_TssAFInk
Bcells peripheral blood_1_TssA
HOPP_Txn_elongation
Tcells peripheral blood_1_TssA
monocytes peripheral blood_1_TssA
Tcells peripheral blood_1_TssAFInk
HOPP_Txn_elongation
Bcells peripheral blood_4_Tx
Tcells peripheral blood_4_Tx
WIRTH_Liver
HSIANG_LIVER_SPECIFIC_GENES
CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN
WILLSCHER_GBM_Verhaak_PNwt & CL_up
Tcells peripheral blood_4_Tx
RICKMAN_HEAD_AND_NECK_CANCER_F
LaPointe_mucosa-position_kmeans_E_transverse colon_UP_transverse colon_UP
RNA binding
translation
Chaussabel_2_4_Ribosomal proteins
Tcells peripheral blood_1_TssA
monocytes peripheral blood_1_TssA
SPANG_BCL6_index2
HOPP_Strong_enhancer
Bcells peripheral blood_1_TssA
Tcells peripheral blood_2_TssAFInk
Lembcke_TCGA_exor_kmeans_E_CIMP.H_UP_Cluster4_DN
Sturm_0.999_Sturm_E4_Mesenchymal_RTKY_PDGFR4_DN
WIRTH_EBV_B-cells
LENZ_Stroma_signature_1
FALLMARK_BREAST_MESENCHYMAL_TRANSITION
SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
Lembcke_TCGA_exor_kmeans_E_CIMP.H_UP_Cluster4_DN
WALLACE_PROSTATE_CANCER_RACE_UP
2_TssA_Skeletal_Muscle
6_EnhG_Fibroblasts
HOPP_Repressed
LaPointe_mucosa-position_kmeans_F_cecum colon_transverse colon_UP_transverse colon_UP
9_ReprPCWk_Melanocytes
LaPointe_mucosa-position_kmeans_E_transverse colon_UP_transverse colon_UP
Chaussabel_3_8_EnhG
Tcells peripheral blood_4_Tx
endoplasmic reticulum
TARTE_PLASMA_CELL_SIGNATURE
TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
SPANG_BCL6_index2
monocytes peripheral blood_6_EnhG
HOPP_Strong_enhancer
WIRTH_Mucosa
WIRTH_METASTASIS_DN
ONDER_CDH1_TARGETS_2_DN
LaPointe_mucosa-position_kmeans_F_cecum colon_transverse colon_UP_transverse colon_UP
8_EnhG_Fibroblasts
C-B-cells
MOBEAUX_MULTIPLE_MYELOMA_BY_TACI_UP
HOPP_DN
8_EnhG_Fibroblasts



K-Means Cluster

Spot Summary: A

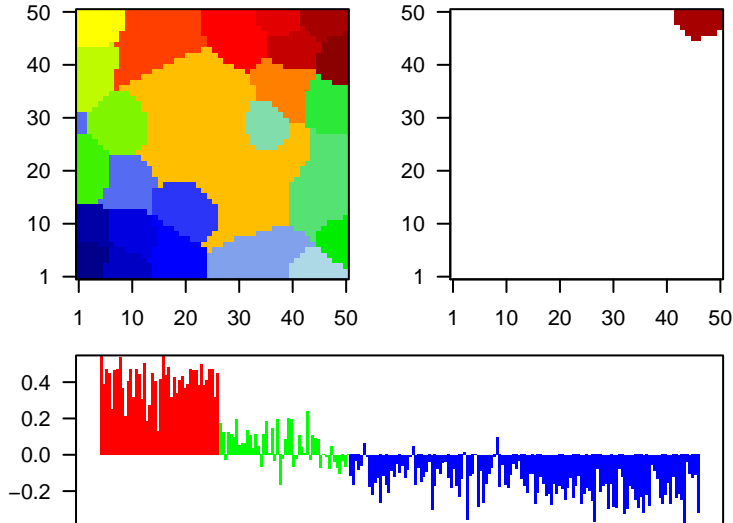
metagenes = 43
genes = 607

<r> metagenes = 0.94
<r> genes = 0.27
beta: r2= 13.5 / log p= -Inf

samples with spot = 51 (23.1 %)
mBL : 43 (97.7 %)
intermediate : 8 (16.7 %)

Overview Map

Spot

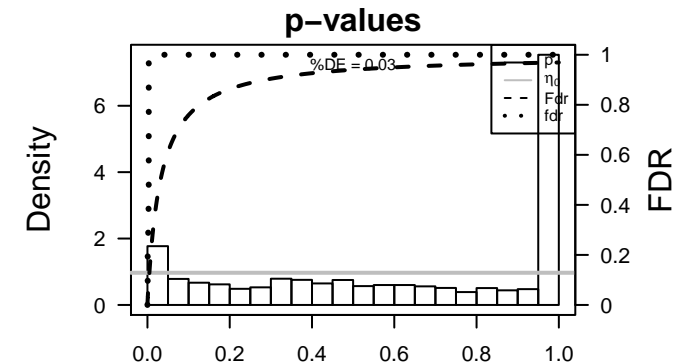


Spot Genelist

Rank	ID	max e	r	min e	Description
1	AFFX-r2-Hs1	3.22	-1.13	0.3	
2	AFFX-r2-Hs1	3.07	-1.49	0.23	
3	AFFX-HUMR	2.91	-0.94	0.31	microRNA 3687-2 [Source:HGNC Symbol;Acc:HGNC:50835]
4	AFFX-HUMR	2.85	-1.18	0.21	
5	206660_at	2.83	-0.99	0.48	IGLL1 immunoglobulin lambda like polypeptide 1 [Source:HGNC Sym]
6	221349_at	2.76	-0.89	0.71	VPREB1 V-set pre-B cell surrogate light chain 1 [Source:HGNC Synt
7	206413_s_at	2.76	-1.22	0.37	TCL1B T cell leukemia/lymphoma 1B [Source:HGNC Symbol;Acc:HC
8	AFFX-r2-Hs1	2.71	-1.22	0.36	
9	AFFX-r2-Hs2	2.62	-0.97	0.32	
10	AFFX-M2783	2.6	-1.58	0.34	
11	AFFX-HUMR	2.6	-1.04	0.31	
12	203980_at	2.41	-1.55	0.28	FABP4 fatty acid binding protein 4 [Source:HGNC Symbol;Acc:HGNC
13	204914_s_at	2.24	-0.89	0.64	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
14	AFFX-r2-Hs2	2.21	-1.56	0.32	
15	213920_at	2.19	-1.02	0.49	CUX2 cut like homeobox 2 [Source:HGNC Symbol;Acc:HGNC:1934
16	219855_at	2.18	-0.78	0.45	NUDT11 nudix hydrolase 11 [Source:HGNC Symbol;Acc:HGNC:18011
17	213674_x_at	2.16	-1.9	0.32	immunoglobulin heavy constant delta [Source:HGNC Symbol
18	38037_at	2.16	-1.11	0.55	HBEGF heparin binding EGF like growth factor [Source:HGNC Symbc
19	204915_s_at	2.16	-0.86	0.57	SOX11 SRY-box 11 [Source:HGNC Symbol;Acc:HGNC:11191]
20	208598_at	2.13	-0.99	0.2	PNMA2 PNMA family member 2 [Source:HGNC Symbol;Acc:HGNC:9

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-48	37 / 42	GSE/ HUMMEL_BURKITTs_LYMPHOMA_UP
2	2e-31	40 / 99	Lymp/ Sha_BL_UP
3	1e-25	107 / 955	Lymp/ SPANG_BCR_UP
4	8e-22	43 / 192	Lymp/ Victora_Dark zone signature
5	4e-19	58 / 400	GSE/ PUJANA_BRCA2_PCC_NETWORK
6	1e-18	80 / 728	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
7	3e-17	13 / 15	Lymp/ BENTINK_mBL_UP
8	2e-16	71 / 651	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
9	8e-16	120 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
10	8e-15	92 / 1052	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
11	9e-15	87 / 966	GSE/ KINSEY_TARGETS_OF_EWSR1_FLI1_FUSION_UP
12	3e-14	41 / 275	GSE/ HADDAD_B_LYMPHOCTYCE_PROGENITOR
13	3e-14	37 / 227	Lymp/ SPANG_IL21_UP
14	7e-14	71 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
15	3e-13	63 / 615	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_DN
16	3e-13	10 / 12	Canc/ BENTINK_e2f3.2
17	4e-12	297 / 5908	Lymp/ HOPP_Active_promoter
18	5e-12	26 / 135	Lymp/ DAVE_BL-vs-DLBCL
19	6e-12	158 / 2541	CC/ nucleoplasm
20	2e-11	34 / 240	GSE/ MITSIADES_RESPONSE_TO_APLIDIN_DN
21	2e-11	37 / 280	GSE/ MANALO_HYPOXIA_DN
22	8e-11	45 / 409	Canc/ Lembcke_Normal vs Adenoma
23	3e-10	38 / 319	Melar/ Gerber_wt/wt_melanoma-cells-SpotA
24	3e-10	34 / 263	Lymp/ SPANG_CD40_6hrs_UP
25	4e-10	275 / 5529	Lymp/ HOPP_Txn_elongation
26	4e-10	51 / 526	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
27	7e-10	59 / 669	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
28	8e-10	45 / 439	GSE/ SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
29	1e-09	236 / 4579	CC/ nucleus
30	1e-09	53 / 575	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
31	2e-09	8 / 12	Canc/ BENTINK_ras.1
32	2e-09	54 / 602	Color/ Pentrack_CRC_TCGA_corr_R_normal_DN
33	3e-09	6 / 6	Lymp/ MASQUE_mBL_UP
34	4e-09	15 / 60	GSE/ PYEON_HPV_POSITIVE_TUMORS_UP
35	4e-09	36 / 321	GSE/ TOYOTA_TARGETS_OF_MIR34B_AND_MIR34C
36	5e-09	43 / 431	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
37	3e-08	57 / 703	GSE/ LEE_BMP2_TARGETS_DN
38	3e-08	23 / 160	GSE/ PUJANA_XPRSS_INT_NETWORK
39	8e-08	25 / 195	GSE/ HOLLMANN_APOPTOSIS_VIA_CD40_UP
40	8e-08	41 / 442	GSE/ KIM_WT1_TARGETS_DN



K-Means Cluster

Spot Summary: B

metagenes = 47
genes = 579

<r> metagenes = 0.88
<r> genes = 0.17
beta: r2= 5.84 / log p= -Inf

samples with spot = 46 (20.8 %)
mBL : 31 (70.5 %)
intermediate : 11 (22.9 %)
non-mBL : 4 (3.1 %)

Spot Genelist

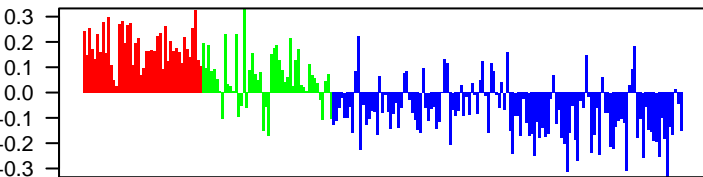
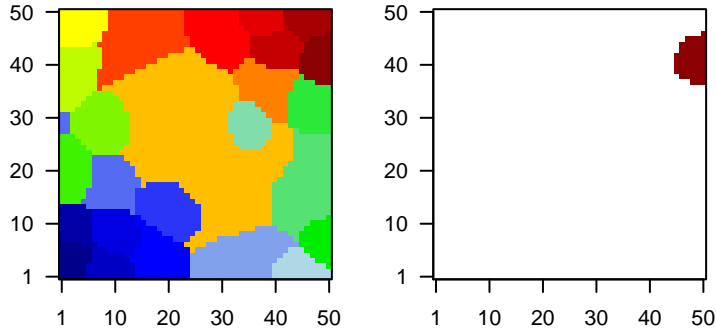
Rank	ID	max e	r	min e	Description
					Symbol
1	219655_at	2.48	-0.74	0.5	SUGCT succinyl-CoA:glutarate-CoA transferase [Source:HGNC Syrr
2	221933_at	2.43	-0.83	0.26	NLGN4X neuroligin 4, X-linked [Source:HGNC Symbol;Acc:HGNC:142
3	220448_at	2.35	-0.95	0.52	KCNK12 potassium two pore domain channel subfamily K member 12
4	203865_s_at	2.33	-1.02	0.38	ADARB1 adenosine deaminase, RNA specific B1 [Source:HGNC Symt
5	221879_at	2.18	-0.84	0.29	
6	205902_at	2.03	-0.94	0.48	KCNN3 potassium calcium-activated channel subfamily N member 3
7	208719_s_at	2	-1.36	0.2	DDX17 DEAD-box helicase 17 [Source:HGNC Symbol;Acc:HGNC:2:
8	210640_s_at	1.98	-0.91	0.41	GPER1 G protein-coupled estrogen receptor 1 [Source:HGNC Symb
9	220432_s_at	1.97	-0.86	0.51	CYP39A cytochrome P450 family 39 subfamily A member 1 [Source:H
10	211998_at	1.94	-0.89	0.24	H3F3B H3 histone family member 3B [Source:HGNC Symbol;Acc:HC
11	217373_x_at	1.92	-1.07	0.41	MDM2 MDM2 proto-oncogene [Source:HGNC Symbol;Acc:HGNC:6
12	213436_at	1.92	-1.49	0.38	CNR1 cannabinoid receptor 1 [Source:HGNC Symbol;Acc:HGNC:2:
13	212186_at	1.91	-1.42	0.36	ACACA acetyl-CoA carboxylase alpha [Source:HGNC Symbol;Acc:H
14	218980_at	1.88	-0.67	0.47	FHOD3 formin homology 2 domain containing 3 [Source:HGNC Symt
15	209493_at	1.88	-1.38	0.35	PDZD2 PDZ domain containing 2 [Source:HGNC Symbol;Acc:HGNC
16	213668_s_at	1.86	-1.12	0.27	SOX4 SRY-box 4 [Source:HGNC Symbol;Acc:HGNC:11200]
17	205340_at	1.82	-0.76	0.28	ZBTB24 zinc finger and BTB domain containing 24 [Source:HGNC Syr
18	210461_s_at	1.78	-0.98	0.5	ABLIM1 actin binding LIM protein 1 [Source:HGNC Symbol;Acc:HGNC
19	208151_x_at	1.73	-1.48	0.27	DDX17 DEAD-box helicase 17 [Source:HGNC Symbol;Acc:HGNC:2:
20	218862_at	1.71	-1.7	0.59	ASB13 ankyrin repeat and SOCS box containing 13 [Source:HGNC S

Geneset Overrepresentation

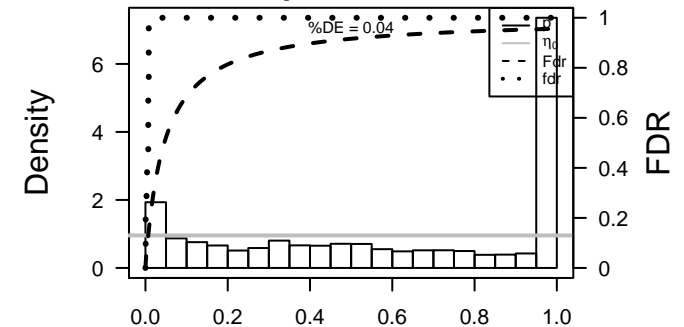
Rank	p-value	#in/all	Geneset
1	2e-32	346 / 5908	Lymph HOPP_Active_promoter
2	2e-30	328 / 5529	Lymph HOPP_Txn_elongation
3	2e-24	310 / 5404	Lymph HOPP_Strong_enhancer
4	5e-24	264 / 4261	Lymph HOPP_Txn_transition
5	3e-21	49 / 263	Lymph SPANG_CD40 6hrs UP
6	4e-21	312 / 5682	Lymph HOPP_Weak_promoter
7	6e-19	94 / 955	Lymph SPANG_BCR UP
8	4e-16	81 / 830	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
9	5e-15	35 / 195	GSE/ HOLLMANN_APOPTOSIS_VIA_CD40_UP
10	1e-14	242 / 4357	Lymph HOPP_Weak_txn
11	1e-13	247 / 4559	Lymph HOPP_Weak_enhancer
12	6e-13	24 / 106	Refer Chaussabel_2_11_Replication
13	2e-12	92 / 1174	Color LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_c
14	4e-12	40 / 309	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_DN
15	8e-12	200 / 3564	TF ICGC_Taf1_targets
16	1e-11	108 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
17	6e-11	238 / 4579	CC nucleus
18	2e-10	35 / 275	GSE/ HADDAD_B_LYMPHOCYTE_PROGENITOR
19	2e-10	151 / 2541	CC nucleoplasm
20	1e-09	46 / 469	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
21	2e-09	19 / 96	Lymph SPANG_LPS 6hrs UP
22	9e-09	89 / 1312	GSE/ PUJANA_ATM_PCC_NETWORK
23	2e-08	197 / 3796	TF ICGC_Nficsc81335_targets
24	2e-08	14 / 59	GSE/ HUTTMANN_B_CLL_POOR_SURVIVAL_DN
25	3e-08	168 / 3121	TF ICGC_Egr1_targets
26	3e-08	14 / 61	GSE/ BASSO_CD40_SIGNALING_DN
27	5e-08	98 / 1550	GSE/ PILON_KLF1_TARGETS_DN
28	7e-08	6 / 8	Lymph MASCQUE_GCB UP
29	8e-08	180 / 3451	TF ICGC_Atf2_targets
30	9e-08	20 / 133	GSE/ PENG_LEUCINE_DEPRIVATION_UP
31	1e-07	24 / 186	GSE/ PENG_RAPAMYCIN_RESPONSE_UP
32	2e-07	128 / 2254	TF ICGC_BatPcr1_targets
33	2e-07	193 / 3804	TF ICGC_Stat5_targets
34	2e-07	24 / 192	Lymph Victoria_Dark zone signature
35	2e-07	62 / 848	Color LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
36	3e-07	94 / 1523	Gliom Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
37	4e-07	190 / 3769	TF ICGC_Pmlsc71910_targets
38	5e-07	11 / 45	Lymph Monti_BCR_cluster
39	5e-07	94 / 1541	MF DNA binding
40	6e-07	10 / 37	GSE/ ZHAN_MULTIPLE_MYELOMA_CD2_UP

Overview Map

Spot



p-values



K-Means Cluster

Spot Summary: C

metagenes = 35
genes = 550

<r> metagenes = 0.95
<r> genes = 0.34
beta: r2= 7.28 / log p= -Inf

samples with spot = 49 (22.2 %)
mBL : 36 (81.8 %)
intermediate : 7 (14.6 %)
non-mBL : 6 (4.7 %)

Spot Genelist

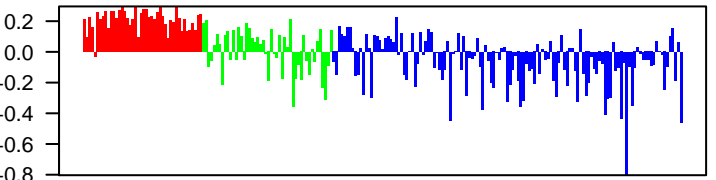
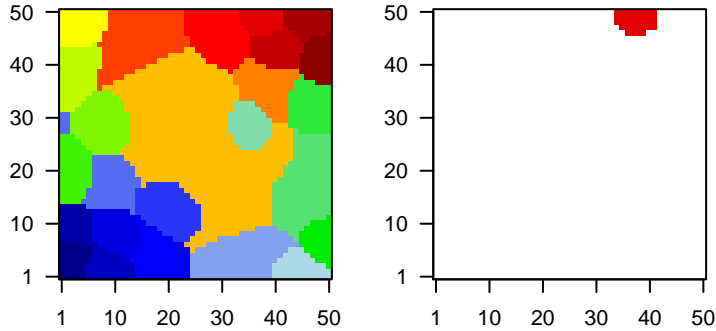
Rank	ID	max e	r	min e	Description
					Symbol
1	205190_at	1.86	-1.09	0.47	PLS1 plastin 1 [Source:HGNC Symbol;Acc:HGNC:9090]
2	205229_s_at	1.84	-2.18	0.38	COCH cochlin [Source:HGNC Symbol;Acc:HGNC:2180]
3	209980_s_at	1.66	-1.51	0.73	SHMT1 serine hydroxymethyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10800]
4	208502_s_at	1.64	-1.55	0.39	PITX1 paired like homeodomain 1 [Source:HGNC Symbol;Acc:HGNC:9090]
5	212436_at	1.64	-1.2	0.31	TRIM33 tripartite motif containing 33 [Source:HGNC Symbol;Acc:HGNC:2180]
6	219474_at	1.6	-1.32	0.48	C3orf52 chromosome 3 open reading frame 52 [Source:HGNC Symbol;Acc:HGNC:2180]
7	218507_at	1.58	-1.34	0.21	HILPDA hypoxia inducible lipid droplet associated [Source:HGNC Symbol;Acc:HGNC:2180]
8	217127_at	1.5	-1.12	0.39	CTH cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2180]
9	219733_s_at	1.48	-1.19	0.47	SLC27A5 solute carrier family 27 member 5 [Source:HGNC Symbol;Acc:HGNC:2180]
10	204720_s_at	1.4	-1.15	0.37	DNAJC6 DnaJ heat shock protein family (Hsp40) member C6 [Source:HGNC Symbol;Acc:HGNC:2180]
11	213610_s_at	1.38	-1.42	0.47	KLHL23 kelch like family member 23 [Source:HGNC Symbol;Acc:HGNC:2180]
12	204001_at	1.26	-1.33	0.36	SNAPC3 small nuclear RNA activating complex polypeptide 3 [Source:HGNC Symbol;Acc:HGNC:2180]
13	201791_s_at	1.24	-1.39	0.33	DHCR7 7-dehydrocholesterol reductase [Source:HGNC Symbol;Acc:HGNC:2180]
14	204430_s_at	1.22	-1.69	0.23	SLC2A5 solute carrier family 2 member 5 [Source:HGNC Symbol;Acc:HGNC:2180]
15	203790_s_at	1.21	-1.38	0.55	RIDA reactive intermediate imine deaminase A homolog [Source:HGNC Symbol;Acc:HGNC:2180]
16	222228_s_at	1.16	-0.71	0.32	ALKBH4 alkB homolog 4, lysine demethylase [Source:HGNC Symbol;Acc:HGNC:2180]
17	210389_x_at	1.15	-1.08	0.51	TUBD1 tubulin delta 1 [Source:HGNC Symbol;Acc:HGNC:16811]
18	205217_at	1.14	-1.41	0.48	TIMM8A translocase of inner mitochondrial membrane 8A [Source:HGNC Symbol;Acc:HGNC:2180]
19	211767_at	1.12	-1.32	0.55	GINS4 GINS complex subunit 4 [Source:HGNC Symbol;Acc:HGNC:2180]
20	220160_s_at	1.11	-1.35	0.42	KPTN kaptin, actin binding protein [Source:HGNC Symbol;Acc:HGNC:2180]

Geneset Overrepresentation

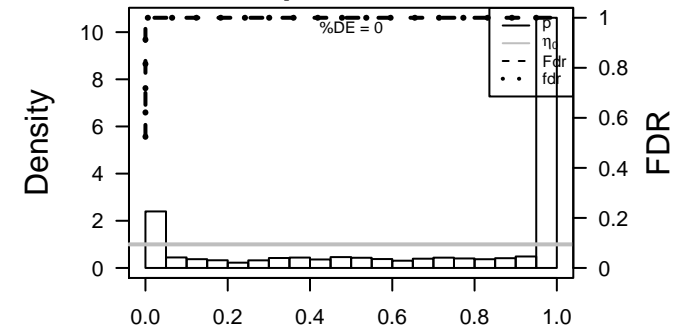
Rank	p-value	#in/all	Geneset
1	1e-99	91 / 115	Gliom WILLSCHER_GBM_Verhaak-CL-up (C)
2	1e-99	167 / 319	Melar Gerber_wt/wt_melanoma-cells-SpotA
3	1e-99	223 / 966	GSE# KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
4	1e-99	99 / 137	GSE# ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
5	1e-99	132 / 244	GSE# KOBAYASHI_EGFR_SIGNALING_24HR_DN
6	1e-99	121 / 254	GSE# DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
7	1e-99	162 / 431	GSE# GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
8	3e-94	149 / 526	GSE# MARSON_BOUND_BY_E2F4_UNSTIMULATED
9	2e-93	138 / 439	GSE# SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
10	3e-93	12 / 14	Cancr SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
11	3e-93	12 / 14	Cancr SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
12	2e-88	130 / 409	Cancr Lembcke_Normal vs Adenoma
13	1e-85	100 / 219	Refer WIRTH_GC B-cells
14	4e-83	108 / 280	GSE# MANALO_HYPOXIA_DN
15	1e-81	89 / 174	GSE# GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
16	9e-80	97 / 226	GSE# ZHANG_TLX_TARGETS_60HR_DN
17	1e-77	157 / 758	GSE# NUYTEN_EZH2_TARGETS_DN
18	3e-74	136 / 575	GSE# CAIRO_HEPATOBLASTOMA_CLASSES_UP
19	3e-73	106 / 321	GSE# BLUM_RESPONSE_TO_SALIRASIB_DN
20	5e-71	114 / 400	GSE# PUJANA_BRCA2_PCC_NETWORK
21	7e-71	84 / 187	HM HALLMARK_E2F_TARGETS
22	8e-70	146 / 726	GSE# PUJANA_CHEK2_PCC_NETWORK
23	4e-68	171 / 1052	GSE# DODD_NASOPHARYNGEAL_CARCINOMA_DN
24	4e-67	99 / 307	GSE# VECCHI_GASTRIC_CANCER_EARLY_UP
25	6e-67	62 / 93	GSE# CROONQUIST_IL6_DEPRIVATION_DN
26	1e-66	58 / 79	Melar Tirosh_core cycling genes in low- and high-proliferation melanoma
27	9e-66	125 / 548	GSE# BENPORATH_CYCLING_GENES
28	9e-66	67 / 117	GSE# CHANG_CYCLING_GENES
29	3e-62	57 / 84	GSE# GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN
30	3e-60	91 / 290	GSE# WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN
31	4e-60	111 / 466	GSE# BERENJENO_TRANSFORMED_BY_RHOA_UP
32	2e-59	193 / 1527	GSE# PUJANA_BRCA1_PCC_NETWORK
33	6e-58	45 / 52	GSE# KANG_DOXORUBICIN_RESISTANCE_UP
34	2e-57	82 / 241	GSE# BASAKI_YBX1_TARGETS_UP
35	3e-57	71 / 169	GSE# FUJII_YBX1_TARGETS_DN
36	1e-56	58 / 102	GSE# WHITEFORD_PEDIATRIC_CANCER_MARKERS
37	2e-56	50 / 70	GSE# CROONQUIST_NRAS_SIGNALING_DN
38	4e-56	129 / 703	GSE# LEE_BMP2_TARGETS_DN
39	4e-55	73 / 192	Lymp Victora_Dark zone signature
40	9e-55	81 / 250	GSE# HORIUCHI_WTAP_TARGETS_DN

Overview Map

Spot



p-values



K-Means Cluster

Spot Summary: D

metagenes = 57
genes = 610

<r> metagenes = 0.92
<r> genes = 0.21
beta: r2= 3.32 / log p= -Inf

samples with spot = 25 (11.3 %)
mBL : 24 (54.5 %)
non-mBL : 1 (0.8 %)

Spot Genelist

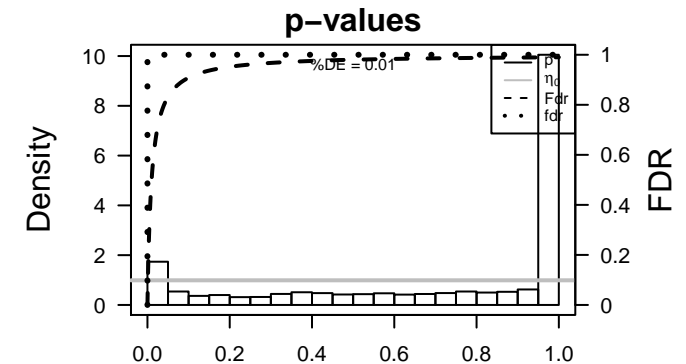
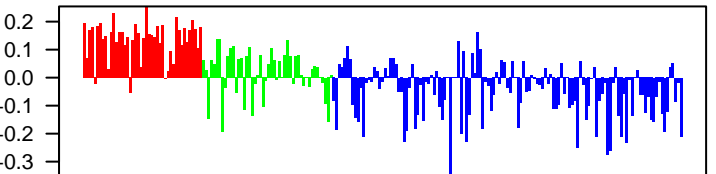
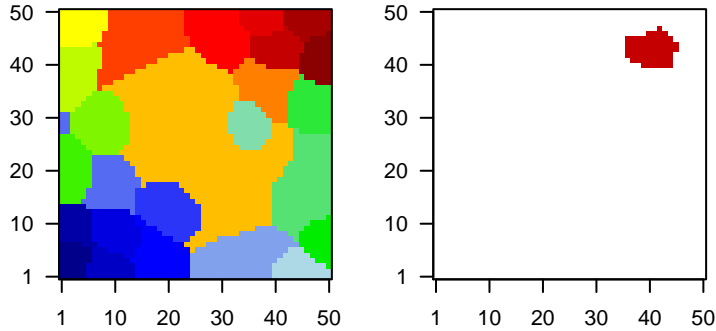
Rank	ID	max e	r	min e	Description
1	205123_s_at	2.4	-0.7	0.4	TMEFF1 transmembrane protein with EGF like and two follistatin like d
2	219743_at	1.91	-0.7	0.52	HEY2 hes related family bHLH transcription factor with YRPW motif
3	211363_s_at	1.76	-1.12	0.41	MTAP methylthioadenosine phosphorylase [Source:HGNC Symbol;]r
4	209587_at	1.65	-1.24	0.45	PITX1 paired like homeodomain 1 [Source:HGNC Symbol;Acc:HGNC:9026]
5	204993_at	1.61	-1.23	0.28	GNAZ G protein subunit alpha z [Source:HGNC Symbol;Acc:HGNC:9026]
6	205789_at	1.51	-1.42	0.14	CD1D CD1d molecule [Source:HGNC Symbol;Acc:HGNC:1637]
7	221591_s_at	1.45	-0.81	0.27	PIMREG PICALM interacting mitotic regulator [Source:HGNC Symbol;]r
8	41037_at	1.43	-0.89	0.25	TEAD4 TEA domain transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:9026]
9	208244_at	1.42	-0.88	0.46	BMP3 bone morphogenetic protein 3 [Source:HGNC Symbol;Acc:HGNC:9026]
10	201927_s_at	1.42	-1.07	0.34	PKP4 plakophilin 4 [Source:HGNC Symbol;Acc:HGNC:9026]
11	221967_at	1.41	-0.93	0.28	NXP4 neurexophilin 4 [Source:HGNC Symbol;Acc:HGNC:8078]
12	215379_x_at	1.41	-2.47	0.21	immunoglobulin lambda constant 2 [Source:HGNC Symbol;Acc:HGNC:9026]
13	215946_x_at	1.37	-1.38	0.27	immunoglobulin lambda like polypeptide 3, pseudogene [Source:HGNC Symbol;Acc:HGNC:9026]
14	221239_s_at	1.35	-1.87	0.41	FCRL2 Fc receptor like 2 [Source:HGNC Symbol;Acc:HGNC:14875]
15	213556_at	1.33	-0.71	0.3	PINLYP phospholipase A2 inhibitor and LY6/PLAUR domain containin
16	218885_s_at	1.32	-1.4	0.22	GALNT1polypeptide N-acetylgalactosaminyltransferase 12 [Source:HGNC Symbol;Acc:HGNC:13996]
17	214158_s_at	1.3	-1.03	0.3	PRDM10PR/SET domain 10 [Source:HGNC Symbol;Acc:HGNC:13996]
18	207396_s_at	1.29	-1.19	0.37	ALG3 ALG3, alpha-1,3- mannosyltransferase [Source:HGNC Symbol;Acc:HGNC:9026]
19	205262_at	1.28	-0.6	0.44	KCNH2 potassium voltage-gated channel subfamily H member 2 [Source:HGNC Symbol;Acc:HGNC:9026]
20	217656_at	1.24	-0.69	0.49	

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-37	114 / 728	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
2	1e-28	62 / 280	GSE/ MANALO_HYPOXIA_DN
3	7e-28	131 / 1161	MF RNA binding
4	1e-27	154 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
5	2e-27	310 / 4579	CC nucleus
6	7e-26	97 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
7	4e-25	206 / 2541	CC nucleoplasm
8	5e-25	84 / 575	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
9	2e-24	89 / 651	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
10	2e-22	58 / 314	GSE/ PENG_GLUTAMINE_DEPRIVATION_DN
11	3e-20	86 / 703	GSE/ LEE_BMP2_TARGETS_DN
12	4e-20	82 / 653	CC nucleolus
13	3e-19	274 / 4261	Lymp HOPP_Txn_transition
14	5e-18	23 / 55	HM HALLMARK_MYC_TARGETS_V2
15	3e-17	44 / 239	GSE/ GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
16	2e-16	35 / 158	GSE/ BILD_MYC_ONCOGENIC_SIGNATURE
17	5e-16	71 / 602	Color Pentrack_CRC_TCGA_corr_R_normal_DN
18	6e-16	68 / 561	Color Pentrack_CRC_TCGA_group.over_C_normal_DN
19	3e-15	44 / 268	GSE/ MUELLER_PLURINET
20	6e-15	316 / 5529	Lymp HOPP_Txn_elongation
21	7e-15	65 / 546	GSE/ MARTENS_TRETINOIN_RESPONSE_DN
22	1e-14	36 / 190	HM HALLMARK_MYC_TARGETS_V1
23	2e-14	34 / 174	BP rRNA processing
24	1e-13	225 / 3564	TF ICGC_Taf1_targets
25	6e-13	21 / 72	GSE/ SCHUHMACHER_MYC_TARGETS_UP
26	2e-12	27 / 129	GSE/ WELCSH_BRCA1_TARGETS_DN
27	2e-12	30 / 159	GSE/ SANSOM_APC_TARGETS_REQUIRE_MYC
28	3e-12	95 / 1107	TF ICGC_Myc_targets
29	5e-12	91 / 1052	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
30	2e-11	73 / 776	Refer PROTEINATLAS_skin
31	3e-11	18 / 62	TF MYC_Targets_UP
32	4e-11	77 / 852	MF nucleic acid binding
33	6e-11	56 / 527	Refer PROTEINATLAS_oral_mucosa
34	8e-11	47 / 400	GSE/ PUJANA_BRCA2_PCC_NETWORK
35	1e-10	37 / 270	GSE/ FOURNIER_ACINAR_DEVELOPMENT_LATE_2
36	1e-10	34 / 233	GSE/ PENG_RAPAMYCIN_RESPONSE_DN
37	2e-10	15 / 45	GSE/ SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_DN
38	2e-10	24 / 123	GSE/ DANG_MYC_TARGETS_UP
39	2e-10	26 / 144	BP methylation
40	2e-10	50 / 453	GSE/ FEVR_CTNNB1_TARGETS_DN

Overview Map

Spot



K-Means Cluster

Spot Summary: E

metagenes = 165
genes = 572

<r> metagenes = 0.79
<r> genes = 0.12
beta: r2= 1.24 / log p= -Inf

samples with spot = 0 (0 %)

Spot Genelist

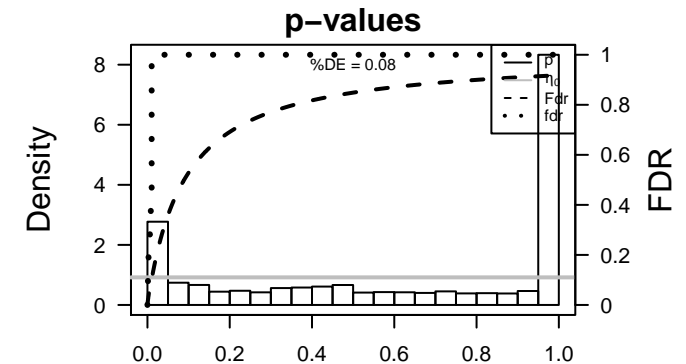
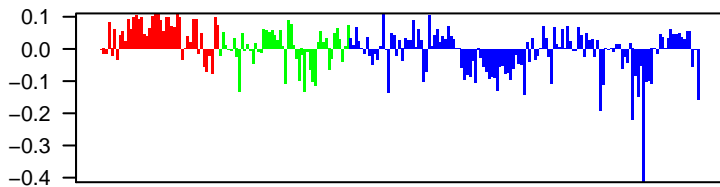
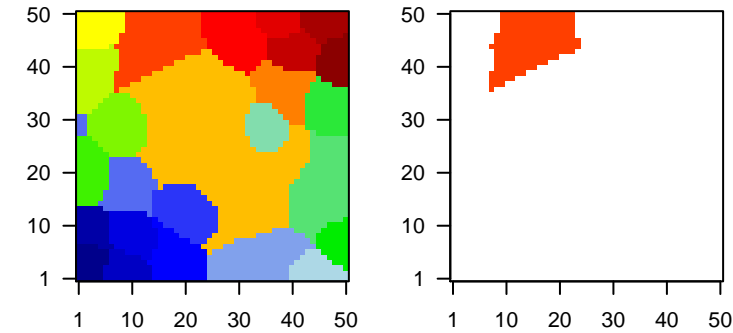
Rank	ID	max e	r	min e	Description
					Symbol
1	206624_at	1.74	-1.1	0.16	USP9Y ubiquitin specific peptidase 9, Y-linked [Source:HGNC Symb
2	205149_s_at	1.57	-0.85	0.43	CLCN4 chloride voltage-gated channel 4 [Source:HGNC Symbol;Acc
3	214831_at	1.57	-0.86	0.44	ELK4 ELK4, ETS transcription factor [Source:HGNC Symbol;Acc:H
4	205414_s_at	1.45	-0.96	0.15	ARHGAP24 GTPase activating protein 44 [Source:HGNC Symbol;Ac
5	211823_s_at	1.43	-0.78	0.32	PXN paxillin [Source:HGNC Symbol;Acc:HGNC:9718]
6	203067_at	1.41	-0.69	0.31	PDHX pyruvate dehydrogenase complex component X [Source:HGNC
7	217556_at	1.35	-0.88	0.26	CLCN4 chloride voltage-gated channel 4 [Source:HGNC Symbol;Acc
8	206220_s_at	1.35	-0.91	0.21	RASA3 RAS p21 protein activator 3 [Source:HGNC Symbol;Acc:HGNC
9	208608_s_at	1.34	-0.79	0.25	SNTB1 syntrophin beta 1 [Source:HGNC Symbol;Acc:HGNC:11168]
10	220615_s_at	1.27	-0.69	0.09	FAR2 fatty acyl-CoA reductase 2 [Source:HGNC Symbol;Acc:HGNC
11	214012_at	1.25	-1.11	0.14	ERAP1 endoplasmic reticulum aminopeptidase 1 [Source:HGNC Syn
12	210544_s_at	1.23	-0.85	0.29	ALDH3A2 aldehyde dehydrogenase 3 family member A2 [Source:HGNC
13	210349_at	1.2	-1.13	0.21	CAMK4 calcium/calmodulin dependent protein kinase IV [Source:HGNC
14	204849_at	1.19	-1.27	0.13	TCFL5 transcription factor like 5 [Source:HGNC Symbol;Acc:HGNC:1
15	215150_at	1.17	-0.74	0.49	YOD1 YOD1 deubiquitinase [Source:HGNC Symbol;Acc:HGNC:250
16	206907_at	1.15	-1.4	0.08	TNFSF9 TNF superfamily member 9 [Source:HGNC Symbol;Acc:HGNC
17	220119_at	1.15	-0.65	0.27	EPB41L4 erythrocyte membrane protein band 4.1 like 4A [Source:HGNC
18	214901_at	1.15	-0.87	0.27	ZNF8 zinc finger protein 8 [Source:HGNC Symbol;Acc:HGNC:1315
19	202485_s_at	1.14	-1.08	0.3	MBD2 methyl-CpG binding domain protein 2 [Source:HGNC Symbo
20	32128_at	1.12	-1.78	0.21	CCL18 C-C motif chemokine ligand 18 [Source:HGNC Symbol;Acc:HGNC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-58	396 / 5529	Lympl HOPP_Txn_elongation
2	3e-42	384 / 5908	Lympl HOPP_Active_promoter
3	1e-41	316 / 4261	Lympl HOPP_Txn_transition
4	6e-41	162 / 1354	Color LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP
5	4e-39	158 / 1338	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
6	7e-32	91 / 564	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN
7	3e-28	151 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
8	1e-22	120 / 1190	GSE/ BLALOCK_ALZHEIMERS_DISEASE_DN
9	3e-21	103 / 966	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
10	7e-20	62 / 417	GSE/ SHEN_SMARCA2_TARGETS_UP
11	6e-19	133 / 1550	GSE/ PILON_KLF1_TARGETS_DN
12	9e-18	68 / 540	GSE/ TIEN_INTESTINE_PROBIOTICS_24HR_UP
13	9e-17	99 / 1044	TF ICGC_Six5_targets
14	9e-17	317 / 5682	Lympl HOPP_Weak_promoter
15	2e-16	226 / 3564	TF ICGC_Taf1_targets
16	1e-15	99 / 1083	Color LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_tra
17	2e-15	73 / 673	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
18	3e-15	76 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
19	5e-15	125 / 1578	TF ICGC_GabpPcr2_targets
20	2e-14	66 / 594	Refer PROTEINATLAS_parathyroid_gland
21	3e-14	44 / 297	GSE/ BORCZUK_MALIGNANT_MESOTHELIOMA_UP
22	2e-13	169 / 2541	CC nucleoplasm
23	4e-13	91 / 1048	Refer PROTEINATLAS_gallbladder
24	5e-13	79 / 848	Refer PROTEINATLAS_adrenal_gland
25	8e-13	70 / 708	Refer PROTEINATLAS_thyroid_gland
26	8e-13	208 / 3420	TF ICGC_Bclaf101388_targets
27	9e-13	101 / 1241	TF KIM_MYC_targets
28	1e-12	109 / 1390	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
29	2e-12	37 / 245	Refer Chaussabel_3_9_Kinases
30	2e-12	87 / 1007	Refer PROTEINATLAS_kidney
31	2e-12	91 / 1081	Refer PROTEINATLAS_testis
32	3e-12	91 / 1089	TF ICGC_Ets1_targets
33	9e-12	220 / 3769	TF ICGC_Pmlsc71910_targets
34	9e-12	48 / 406	GSE/ MOOTHA_HUMAN_MITODB_6_2002
35	1e-11	56 / 527	GSE/ KIM_ALL_DISORDERS_CALB1_CORR_UP
36	1e-11	180 / 2899	TF ICGC_Nfatc1_targets
37	1e-11	254 / 4579	CC nucleus
38	2e-11	11 / 19	GSE/ DEN_INTERACT_WITH_LCA5
39	2e-11	220 / 3805	CC cytosol
40	3e-11	66 / 699	GSE/ BENPORATH_MYC_MAX_TARGETS

Overview Map

Spot



K-Means Cluster

Spot Summary: F

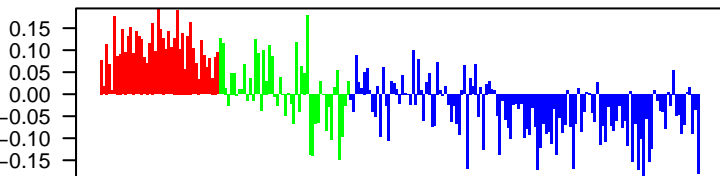
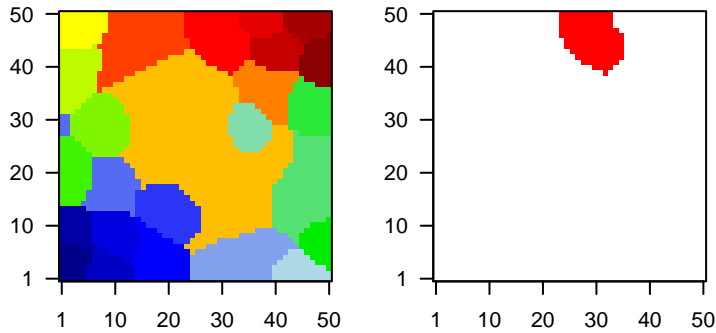
metagenes = 106
genes = 794

<r> metagenes = 0.87
<r> genes = 0.17
beta: r2= 1.47 / log p= -Inf

samples with spot = 9 (4.1 %)
mBL : 8 (18.2 %)
intermediate : 1 (2.1 %)

Overview Map

Spot

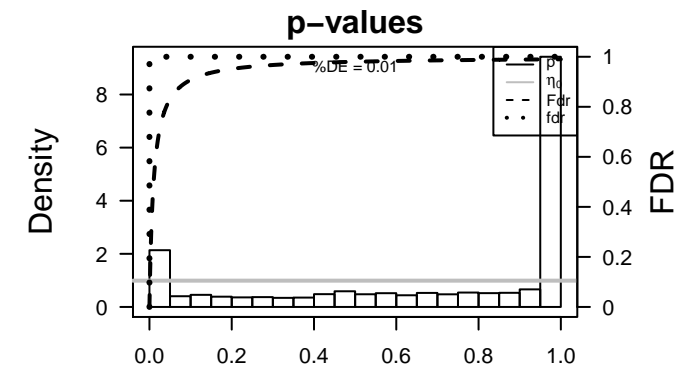


Spot Genelist

Rank	ID	max e	r	min e	Description
1	206023_at	2.55	-1.15	0.2	NMU neuromedin U [Source:HGNC Symbol;Acc:HGNC:7859]
2	220595_at	2.14	-0.73	0.31	PDZRN4 PDZ domain containing ring finger 4 [Source:HGNC Symbol;Acc:HGNC:24252]
3	205130_at	2	-0.95	0.22	MOK MOK protein kinase [Source:HGNC Symbol;Acc:HGNC:9833]
4	215783_s_at	1.96	-1.21	0.17	ALPL alkaline phosphatase, liver/bone/kidney [Source:HGNC Symbol;Acc:HGNC:1055]
5	203673_at	1.92	-0.8	0.1	TG thyroglobulin [Source:HGNC Symbol;Acc:HGNC:11764]
6	207949_s_at	1.9	-0.94	0.21	ICA1 islet cell autoantigen 1 [Source:HGNC Symbol;Acc:HGNC:53]
7	205622_at	1.89	-0.95	0.19	SMPD2 sphingomyelin phosphodiesterase 2 [Source:HGNC Symbol;Acc:HGNC:10552]
8	214243_s_at	1.88	-0.75	0.4	serine hydrolase-like (pseudogene) [Source:HGNC Symbol;Acc:HGNC:11764]
9	221810_at	1.87	-1.12	0.23	RAB15 RAB15, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:10552]
10	208496_x_at	1.86	-0.87	0.18	HIST1H3B histone cluster 1 H3 family member g [Source:HGNC Symbol;Acc:HGNC:11425]
11	220158_at	1.85	-0.68	0.17	LGALS1 galectin 14 [Source:HGNC Symbol;Acc:HGNC:30054]
12	205888_s_at	1.79	-0.75	0.4	JAKMIP2 janus kinase and microtubule interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:11425]
13	203770_s_at	1.76	-0.79	0.18	STS steroid sulfatase [Source:HGNC Symbol;Acc:HGNC:11425]
14	222044_at	1.74	-1.01	0.49	PCIF1 PDX1 C-terminal inhibiting factor 1 [Source:HGNC Symbol;Acc:HGNC:11425]
15	220744_s_at	1.72	-1.03	0.31	IFT122 intraflagellar transport 122 [Source:HGNC Symbol;Acc:HGNC:11425]
16	219370_at	1.67	-0.85	-0.02	RPRM reprimin, TP53 dependent G2 arrest mediator homolog [Source:HGNC Symbol;Acc:HGNC:11425]
17	210571_s_at	1.66	-1.07	0.24	cytidine monophosphate-N-acetylneuraminic acid hydroxylase [Source:HGNC Symbol;Acc:HGNC:11425]
18	214554_at	1.64	-0.71	0.46	HIST1H2A histone cluster 1 H2A family member I [Source:HGNC Symbol;Acc:HGNC:11425]
19	204679_at	1.64	-1	0.18	KCNK1 potassium two pore domain channel subfamily K member 1 [Source:HGNC Symbol;Acc:HGNC:11425]
20	59697_at	1.64	-1.28	0.14	RAB15 RAB15, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:11425]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-42	483 / 5529	Lympi HOPP_Txn_elongation
2	5e-35	392 / 4261	Lympi HOPP_Txn_transition
3	4e-34	186 / 1354	Colon LaPointe_mucosa-position_kmeans_N_ascending_colon_UP
4	2e-32	126 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
5	6e-31	194 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
6	8e-30	474 / 5908	Lympi HOPP_Active_promoter
7	4e-27	156 / 1161	MF RNA binding
8	1e-24	254 / 2541	CC nucleoplasm
9	7e-24	71 / 330	CC mitochondrial inner membrane
10	6e-23	92 / 540	GSE/ TIEN_INTESTINE_PROBIOTICS_24HR_UP
11	1e-22	149 / 1190	GSE/ BLALOCK_ALZHEIMERS_DISEASE_DN
12	1e-22	140 / 1081	Refer PROTEINATLAS_testis
13	3e-22	160 / 1338	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
14	6e-22	51 / 190	HM HALLMARK_MYC_TARGETS_V1
15	1e-21	97 / 616	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
16	8e-21	70 / 361	GSE/ GARY_CD5_TARGETS_DN
17	6e-20	48 / 186	HM HALLMARK_OXIDATIVE_PHOSPHORYLATION
18	2e-19	146 / 1241	TF KIM_MYC targets
19	4e-19	57 / 268	CC intracellular ribonucleoprotein complex
20	5e-19	129 / 1044	TF ICGC_Six5_targets
21	1e-18	365 / 4579	CC nucleus
22	1e-18	97 / 677	Refer PROTEINATLAS_esophagus
23	2e-18	96 / 669	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
24	2e-18	33 / 95	GSE/ KEGG_OXIDATIVE_PHOSPHORYLATION
25	3e-18	44 / 172	GSE/ REACTOME_HIV_INFECTION
26	6e-18	47 / 198	BP mRNA splicing, via spliceosome
27	7e-18	70 / 406	GSE/ MOOTHA_HUMAN_MITODB_6_2002
28	2e-17	71 / 422	GSE/ MOOTHA_MITOCHONDRIA
29	5e-17	298 / 3564	TF ICGC_Taf1_targets
30	6e-17	40 / 154	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_17
31	1e-16	124 / 1048	Refer PROTEINATLAS_gallbladder
32	1e-16	67 / 396	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
33	1e-16	35 / 120	GSE/ REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE
34	2e-16	43 / 181	GSE/ WONG_MITOCHONDRIA_GENE_MODULE
35	2e-16	137 / 1221	CC mitochondrion
36	2e-16	37 / 136	GSE/ REACTOME_MRNA_PROCESSING
37	2e-16	101 / 776	Refer PROTEINATLAS_skin
38	2e-16	28 / 77	GSE/ MOOTHA_VOXPPOS
39	4e-16	116 / 966	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
40	4e-16	26 / 67	GSE/ REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHES



K-Means Cluster

Spot Summary: G

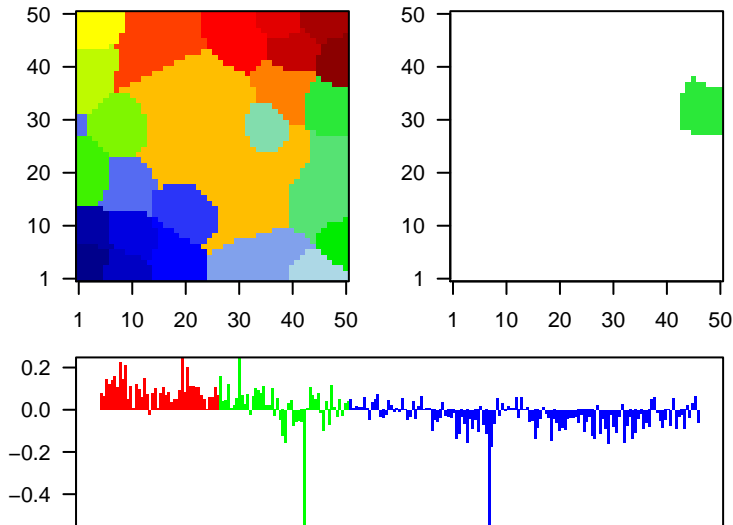
metagenes = 74
genes = 844

<r> metagenes = 0.87
<r> genes = 0.2
beta: r2= 2.24 / log p= -Inf

samples with spot = 8 (3.6 %)
mBL : 6 (13.6 %)
intermediate : 2 (4.2 %)

Overview Map

Spot

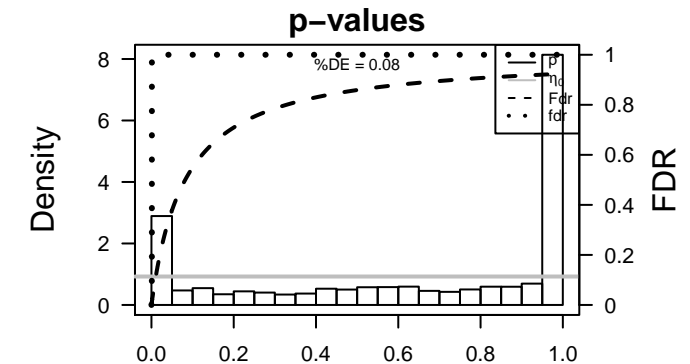


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	206233_at	1.81	-0.95	0.17	B4GALT6beta-1,4-galactosyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:21637]
2	213435_at	1.73	-1.11	0.29	SATB2 SATB homeobox 2 [Source:HGNC Symbol;Acc:HGNC:21637]
3	213489_at	1.67	-1.75	0.31	MAPRE2microtubule associated protein RP/EB family member 2 [Source:HGNC Symbol;Acc:HGNC:21637]
4	213839_at	1.52	-0.78	0.19	CLMN calmin [Source:HGNC Symbol;Acc:HGNC:19972]
5	221045_s_at	1.42	-0.9	0.12	PER3 period circadian regulator 3 [Source:HGNC Symbol;Acc:HGNC:21637]
6	206738_at	1.41	-0.97	0.34	APOC4-APOC2 readthrough (NMD candidate) [Source:HGNC Symbol;Acc:HGNC:21637]
7	202661_at	1.39	-1.1	0.29	
8	221207_s_at	1.38	-0.94	0.37	NBEA neurobeachin [Source:HGNC Symbol;Acc:HGNC:7648]
9	208358_s_at	1.36	-1	0.31	UGT8 UDP glycosyltransferase 8 [Source:HGNC Symbol;Acc:HGNC:21637]
10	214790_at	1.35	-0.72	0.37	SENP6 SUMO1/sentrin specific peptidase 6 [Source:HGNC Symbol;Acc:HGNC:21637]
11	204547_at	1.34	-1.13	0.32	RAB40B RAB40B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:21637]
12	206314_at	1.34	-1.07	0.33	ZKSCAN2zinc finger with KRAB and SCAN domains 7 [Source:HGNC Symbol;Acc:HGNC:21637]
13	210733_at	1.33	-1	0.35	
14	220181_x_at	1.3	-1.03	0.4	SLC30A5solute carrier family 30 member 5 [Source:HGNC Symbol;Acc:HGNC:21637]
15	218183_at	1.27	-0.93	0.29	CDIP1 cell death inducing p53 target 1 [Source:HGNC Symbol;Acc:HGNC:21637]
16	208920_at	1.2	-0.9	0.31	SRI sorcin [Source:HGNC Symbol;Acc:HGNC:11292]
17	219312_s_at	1.18	-1.16	0.33	ZBTB10 zinc finger and BTB domain containing 10 [Source:HGNC Symbol;Acc:HGNC:21637]
18	210379_s_at	1.17	-1.36	0.23	TLK1 touselled like kinase 1 [Source:HGNC Symbol;Acc:HGNC:1184]
19	209750_at	1.16	-0.94	0.41	NR1D2 nuclear receptor subfamily 1 group D member 2 [Source:HGNC Symbol;Acc:HGNC:21637]
20	204155_s_at	1.15	-1.45	0.18	SIK3 SIK family kinase 3 [Source:HGNC Symbol;Acc:HGNC:2916E]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	597 / 5529	Lymp HOPP_Txn_elongation
2	2e-98	144 / 310	Refer Chaussabel_3_4_Protein phosphatases
3	2e-87	589 / 5908	Lymp HOPP_Active_promoter
4	3e-59	449 / 4261	Lymp HOPP_Txn_transition
5	2e-57	175 / 830	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
6	6e-53	119 / 417	GSE/ SHEN_SMARCA2_TARGETS_UP
7	1e-47	510 / 5682	Lymp HOPP_Weak_promoter
8	3e-41	200 / 1338	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
9	3e-40	80 / 245	Refer Chaussabel_3_9_Kinases
10	2e-39	215 / 1550	GSE/ PILON_KLF1_TARGETS_DN
11	5e-35	109 / 516	GSE/ HAMAI_APOPTOSIS_VIA_TRAIL_UP
12	7e-35	126 / 673	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
13	1e-34	103 / 469	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
14	2e-33	93 / 398	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_UP
15	3e-32	199 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
16	1e-31	409 / 4579	CC nucleus
17	2e-31	120 / 669	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
18	6e-30	103 / 528	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
19	1e-27	385 / 4357	Lymp HOPP_Weak_txn
20	4e-26	172 / 1354	Color LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP
21	1e-25	116 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
22	7e-25	144 / 1052	GSE/ DODD_NASOPHARYNGEAL_CARINOMA_DN
23	3e-24	153 / 1174	Color LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_c
24	1e-23	180 / 1523	Gliom Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
25	1e-23	163 / 1312	GSE/ PUJANA_ATM_PCC_NETWORK
26	4e-23	384 / 4559	Lymp HOPP_Weak_enhancer
27	7e-23	149 / 1161	MF RNA binding
28	8e-22	81 / 442	GSE/ KIM_WT1_TARGETS_DN
29	1e-21	161 / 1343	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
30	8e-21	247 / 2541	CC nucleoplasm
31	4e-20	58 / 260	miRN hsa-miR-561
32	8e-20	62 / 297	GSE/ BORCZUK_MALIGNANT_MESOTHELIOMA_UP
33	3e-19	57 / 261	miRN hsa-miR-559
34	7e-19	62 / 309	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_DN
35	8e-19	59 / 284	miRN hsa-miR-548d-5p
36	2e-18	78 / 468	GSE/ ENK_UV_RESPONSE KERATINOCYTE_DN
37	2e-18	50 / 214	GSE/ CHEN_HOXA5_TARGETS_9HR_UP
38	2e-18	40 / 139	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_DN
39	4e-18	57 / 275	miRN hsa-miR-590-3p
40	5e-18	122 / 966	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP



K-Means Cluster

Spot Summary: H

metagenes = 57
genes = 279

<r> metagenes = 0.93
<r> genes = 0.19
beta: r2= 1.69 / log p= -Inf

samples with spot = 3 (1.4 %)
mBL : 2 (4.5 %)
non-mBL : 1 (0.8 %)

Spot Genelist

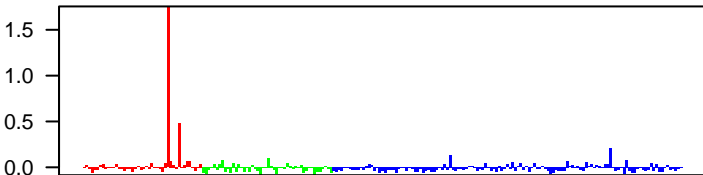
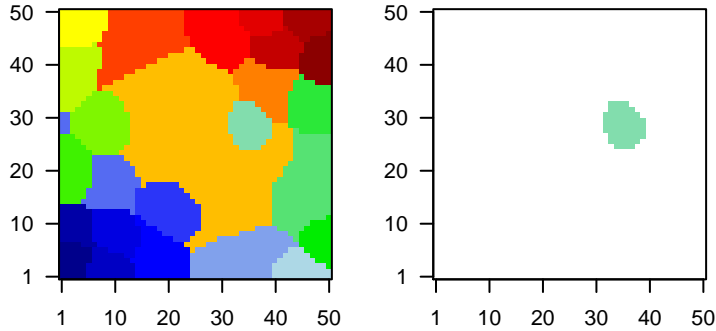
Rank	ID	max e	r	min e	Description
1	219465_at	3.55	-0.52	0.78	APOA2 apolipoprotein A2 [Source:HGNC Symbol;Acc:HGNC:601]
2	208470_s_at	3.52	-0.84	0.62	HPR haptoglobin-related protein [Source:HGNC Symbol;Acc:HGNC:601]
3	219466_s_at	3.5	-0.5	0.81	APOA2 apolipoprotein A2 [Source:HGNC Symbol;Acc:HGNC:601]
4	211298_s_at	3.41	-0.62	0.76	ALB albumin [Source:HGNC Symbol;Acc:HGNC:399]
5	203400_s_at	3.34	-0.63	0.73	TF transferrin [Source:HGNC Symbol;Acc:HGNC:11740]
6	217238_s_at	3.3	-0.55	0.69	ALDOB aldolase, fructose-bisphosphate B [Source:HGNC Symbol;Acc:HGNC:601]
7	205820_s_at	3.27	-0.63	0.68	APOC3 apolipoprotein C3 [Source:HGNC Symbol;Acc:HGNC:610]
8	206697_s_at	3.26	-0.73	0.56	HP haptoglobin [Source:HGNC Symbol;Acc:HGNC:5141]
9	204988_at	3.25	-0.63	0.68	FGB fibrinogen beta chain [Source:HGNC Symbol;Acc:HGNC:366]
10	205892_s_at	3.21	-0.45	0.68	FABP1 fatty acid binding protein 1 [Source:HGNC Symbol;Acc:HGNC:601]
11	204965_at	3.18	-0.53	0.74	GC GC, vitamin D binding protein [Source:HGNC Symbol;Acc:HGNC:601]
12	209937_at	3.14	-0.36	0.77	TM4SF4 transmembrane 4 L six family member 4 [Source:HGNC Symbol;Acc:HGNC:601]
13	208383_s_at	3.1	-0.64	0.61	PCK1 phosphoenolpyruvate carboxykinase 1 [Source:HGNC Symbol;Acc:HGNC:601]
14	219140_s_at	3.1	-0.66	0.68	RBP4 retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:601]
15	206226_at	3.08	-0.56	0.68	HRG histidine rich glycoprotein [Source:HGNC Symbol;Acc:HGNC:601]
16	210929_s_at	3.08	-0.82	0.66	AHSG alpha 2-HS glycoprotein [Source:HGNC Symbol;Acc:HGNC:601]
17	214063_s_at	3.07	-0.61	0.72	TF transferrin [Source:HGNC Symbol;Acc:HGNC:11740]
18	205650_s_at	3.06	-0.63	0.68	FGA fibrinogen alpha chain [Source:HGNC Symbol;Acc:HGNC:366]
19	219612_s_at	3.01	-0.47	0.74	FGG fibrinogen gamma chain [Source:HGNC Symbol;Acc:HGNC:366]
20	216238_s_at	2.97	-0.52	0.72	FGB fibrinogen beta chain [Source:HGNC Symbol;Acc:HGNC:366]

Geneset Overrepresentation

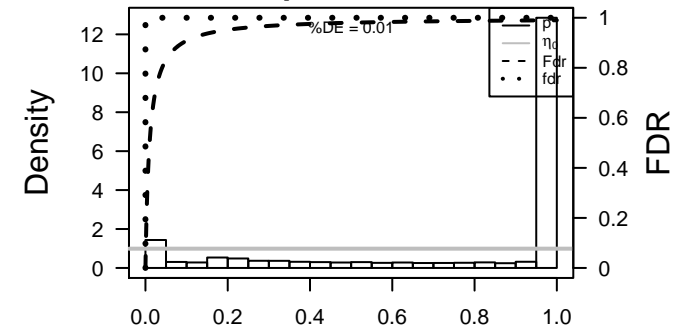
Rank	p-value	#in/all	Geneset
1	1e-99	70 / 94	Refer WIRTH_Liver
2	1e-99	113 / 218	GSE/ HSIAO_LIVER_SPECIFIC_GENES
3	4e-52	49 / 147	GSE/ CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN
4	1e-46	51 / 208	GSE/ CAIRO_LIVER_DEVELOPMENT_DN
5	3e-44	52 / 243	GSE/ HOSHIDA_LIVER_CANCER_SUBCLASS_S3
6	3e-42	51 / 250	GSE/ CAIRO_HEPATOBLASTOMA_DN
7	4e-41	30 / 52	GSE/ SU_LIVER
8	3e-40	41 / 144	GSE/ LEE_LIVER_CANCER_SURVIVAL_UP
9	4e-38	58 / 421	GSE/ ACEVEDO_LIVER_CANCER_DN
10	1e-35	29 / 64	GSE/ KEGG_COMPLEMENT_AND_COAGULATION_CASCADES
11	6e-34	34 / 116	CC blood microparticle
12	3e-30	92 / 1611	CC extracellular region
13	7e-29	29 / 100	GSE/ OHGUCHI_LIVER_HNF4A_TARGETS_DN
14	3e-28	74 / 1090	CC extracellular space
15	1e-26	30 / 130	HM HALLMARK_COAGULATION
16	4e-26	46 / 410	GSE/ PILON_KLF1_TARGETS_UP
17	5e-25	23 / 67	GSE/ YAMASHITA_LIVER_CANCER_STEM_CELL_DN
18	7e-25	24 / 77	GSE/ WOO_LIVER_CANCER_RECURRENCE_DN
19	3e-23	27 / 124	GSE/ SERVITJA_LIVER_HNF1A_TARGETS_DN
20	5e-22	96 / 2239	CC extracellular exosome
21	1e-21	19 / 51	BP hemostasis
22	1e-20	37 / 337	GSE/ BOCHKIS_FOXA2_TARGETS
23	8e-20	28 / 181	HM HALLMARK_XENOBIOTIC_METABOLISM
24	1e-19	40 / 429	Refer PROTEINATLAS_liver
25	4e-19	30 / 229	GSE/ ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_DN
26	2e-18	17 / 51	GSE/ KEGG_DRUG_METABOLISM_CYTOCHROME_P450
27	2e-18	76 / 1652	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
28	2e-18	15 / 35	GSE/ LEE_LIVER_CANCER
29	3e-18	27 / 189	GSE/ NABA_ECM_REGULATORS
30	7e-18	20 / 88	BP negative regulation of endopeptidase activity
31	1e-17	14 / 31	GSE/ REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE
32	3e-17	35 / 376	Color Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
33	7e-17	18 / 73	GSE/ LEE_LIVER_CANCER_DENA_DN
34	3e-16	12 / 23	GSE/ BIOCARTA_INTRINSIC_PATHWAY
35	3e-16	26 / 205	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_DN
36	3e-16	18 / 79	CC organelle membrane
37	4e-16	15 / 47	GSE/ KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450
38	9e-16	13 / 32	BP acute-phase response
39	1e-15	12 / 25	GSE/ REACTOME_COMPLEMENT_CASCADE
40	1e-15	14 / 41	GSE/ KEGG_RETINOL_METABOLISM

Overview Map

Spot



p-values



K-Means Cluster

Spot Summary: I

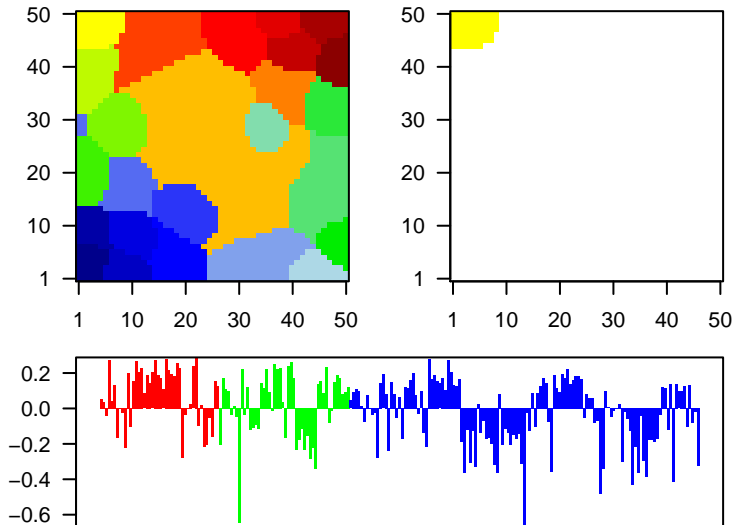
metagenes = 58
genes = 842

<r> metagenes = 0.91
<r> genes = 0.29
beta: r2= 8.6 / log p= -Inf

samples with spot = 56 (25.3 %)
mBL : 20 (45.5 %)
intermediate : 14 (29.2 %)
non-mBL : 22 (17.1 %)

Overview Map

Spot

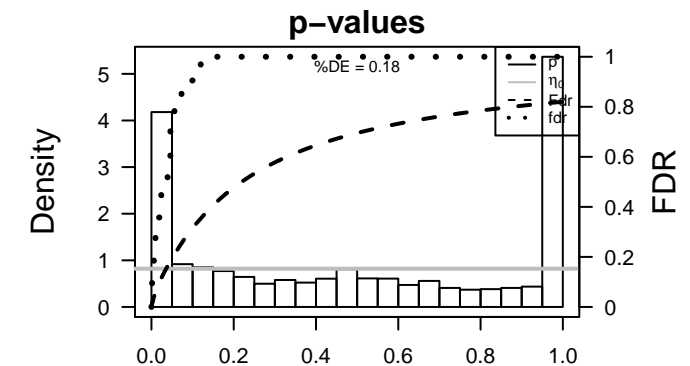


Spot Genelist

Rank	ID	max e	r	min e	Description
1	215489_x_at	1.98	-1.03	0.42	HOMER3 homer scaffolding protein 3 [Source:HGNC Symbol;Acc:HGNC:19333]
2	213060_s_at	1.81	-1.28	0.21	CHI3L2 chitinase 3 like 2 [Source:HGNC Symbol;Acc:HGNC:19333]
3	210360_s_at	1.7	-1.07	0.45	MTSS1 MTSS1, I-BAR domain containing [Source:HGNC Symbol;Acc:HGNC:1054]
4	212389_at	1.62	-1.05	0.59	SBF1 SET binding factor 1 [Source:HGNC Symbol;Acc:HGNC:1054]
5	207686_s_at	1.62	-1.44	0.59	CASP8 caspase 8 [Source:HGNC Symbol;Acc:HGNC:1509]
6	215621_s_at	1.56	-1.08	0.17	immunoglobulin heavy constant delta [Source:HGNC Symbol;Acc:HGNC:1509]
7	208595_s_at	1.54	-1.23	0.42	MBD1 methyl-CpG binding domain protein 1 [Source:HGNC Symbol;Acc:HGNC:1509]
8	203293_s_at	1.51	-1.49	0.58	LMAN1 lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:1509]
9	218811_at	1.49	-1.6	0.6	ORAI2 ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:1509]
10	209664_x_at	1.48	-1.43	0.34	NFATC1 nuclear factor of activated T cells 1 [Source:HGNC Symbol;Acc:HGNC:1509]
11	220086_at	1.45	-1.15	0.42	IKZF5 IKAROS family zinc finger 5 [Source:HGNC Symbol;Acc:HGNC:1509]
12	211708_s_at	1.43	-1.2	0.6	SCD stearyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:1509]
13	203294_s_at	1.4	-1.25	0.59	LMAN1 lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:1509]
14	214971_s_at	1.4	-1.95	0.75	ST6GAL1ST6 beta-galactoside alpha-2,6-sialyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:1509]
15	200831_s_at	1.39	-1.42	0.39	SCD stearyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:1509]
16	211162_x_at	1.39	-1.05	0.55	SCD stearyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:1509]
17	215050_x_at	1.36	-1.7	0.4	MAPKAPK2MAPK-activated protein kinase-activated protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:1509]
18	213562_s_at	1.35	-1.44	0.61	SQLE squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:1127]
19	212497_at	1.34	-0.93	0.51	
20	221703_at	1.32	-1.12	0.51	BRIP1 BRCA1 interacting protein C-terminal helicase 1 [Source:HGNC Symbol;Acc:HGNC:1509]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	144 / 282	Gliom WILLSCHER_GBM_Verhaak-PNwt & CL_up
2	1e-98	575 / 5529	Lympl HOPP_Txn_elongation
3	2e-85	93 / 136	Refern Chaussabel_2_9_Cytoskeleton
4	2e-81	479 / 4261	Lympl HOPP_Txn_transition
5	3e-55	528 / 5908	Lympl HOPP_Active_promoter
6	6e-48	106 / 372	GSE/ SENESE_HDAC1_TARGETS_UP
7	7e-43	98 / 355	Refern WIRTH_Immune system
8	1e-40	102 / 405	GSE/ SENESE_HDAC3_TARGETS_UP
9	9e-39	193 / 1338	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
10	1e-33	201 / 1550	GSE/ PILON_KLF1_TARGETS_DN
11	1e-33	111 / 564	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_UP
12	6e-33	453 / 5404	Lympl HOPP_Strong_enhancer
13	5e-30	461 / 5682	Lympl HOPP_Weak_promoter
14	8e-28	78 / 344	GSE/ THUM_SYSTOLIC_HEART_FAILURE_UP
15	7e-27	185 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
16	2e-25	323 / 3564	TF ICGC_Taf1_targets
17	1e-24	163 / 1312	GSE/ PUJANA_ATM_PCC_NETWORK
18	3e-24	335 / 3805	CC cytosol
19	1e-22	69 / 328	GSE/ OSMAN_BLADDER_CANCER_UP
20	1e-22	130 / 966	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
21	5e-22	189 / 1729	Color LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP
22	2e-20	90 / 564	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN
23	4e-20	84 / 509	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_UP
24	4e-20	470 / 6368	Color LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
25	2e-18	315 / 3769	TF ICGC_Pmlsc71910_targets
26	2e-18	151 / 1343	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP
27	4e-18	109 / 830	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
28	5e-18	315 / 3796	TF ICGC_Nficsc81335_targets
29	1e-17	95 / 678	Refern PROTEINATLAS_lymph node
30	3e-17	313 / 3804	TF ICGC_Stat5_targets
31	4e-17	232 / 2541	CC nucleoplasm
32	6e-17	271 / 3150	TF ICGC_Creb1_targets
33	8e-17	54 / 272	GSE/ LIU_SOX4_TARGETS_DN
34	9e-17	160 / 1523	Gliom Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
35	3e-16	356 / 4579	CC nucleus
36	5e-16	113 / 935	GSE/ MARSON_BOUND_BY_FOXP3_UNSTIMULATED
37	1e-15	69 / 439	GSE/ MARTORIATI_MDM4_TARGETS_FETAL_LIVER_DN
38	2e-15	285 / 3451	TF ICGC_Atf2_targets
39	2e-15	283 / 3420	TF ICGC_Bclaf101388_targets
40	3e-15	104 / 848	Refern PROTEINATLAS_adrenal gland



K-Means Cluster

Spot Summary: J

metagenes = 163
genes = 1565

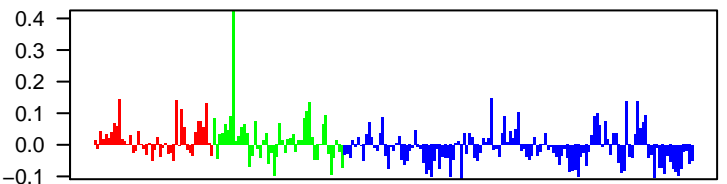
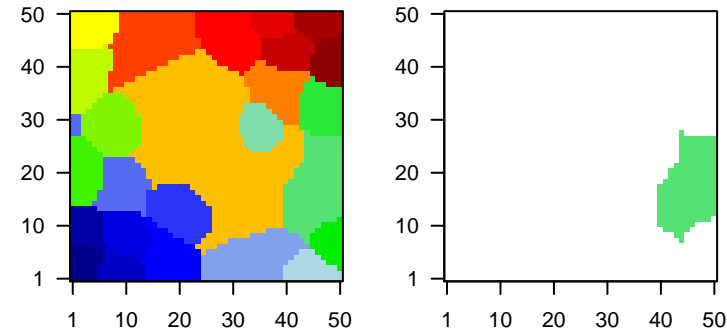
<r> metagenes = 0.59

beta: r2= 1.21 / log p= -Inf

samples with spot = 2 (0.9 %)
intermediate : 1 (2.1 %)
non-mBL : 1 (0.8 %)

Overview Map

Spot

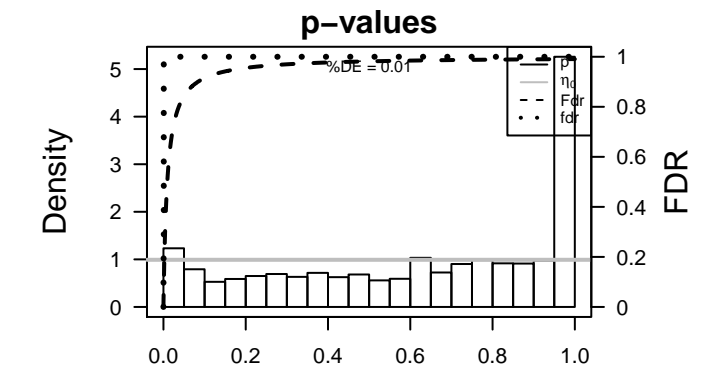


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	206835_at	3.38	-0.64	0.02	STATH statherin [Source:HGNC Symbol;Acc:HGNC:11369]
2	219106_s_at	2.74	-0.57	0.38	KLHL41 kelch like family member 41 [Source:HGNC Symbol;Acc:HGNC:11369]
3	209888_s_at	2.71	-0.65	0.4	MYL1 myosin light chain 1 [Source:HGNC Symbol;Acc:HGNC:7582]
4	205553_s_at	2.65	-0.64	0.28	CSRP3 cysteine and glycine rich protein 3 [Source:HGNC Symbol;Acc:HGNC:11369]
5	204865_at	2.65	-0.72	0.4	CA3 carbonic anhydrase 3 [Source:HGNC Symbol;Acc:HGNC:137]
6	217469_at	2.61	-1.06	0.09	immunoglobulin heavy constant epsilon [Source:HGNC Symbol;Acc:HGNC:11369]
7	205374_at	2.56	-0.68	0.29	SLN sarcolipin [Source:HGNC Symbol;Acc:HGNC:11089]
8	206793_at	2.56	-0.94	0.05	PNMT phenylethanolamine N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:11369]
9	213350_at	2.55	-0.86	0.52	
10	203872_at	2.52	-0.86	0.16	ACTA1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:HGNC:11369]
11	214087_s_at	2.5	-0.61	0.25	MYBPC1 myosin binding protein C, slow type [Source:HGNC Symbol;Acc:HGNC:11369]
12	204631_at	2.49	-0.59	0.28	MYH2 myosin heavy chain 2 [Source:HGNC Symbol;Acc:HGNC:757]
13	204810_s_at	2.44	-0.61	0.15	CKM creatine kinase, M-type [Source:HGNC Symbol;Acc:HGNC:11369]
14	205054_at	2.41	-0.73	0.2	NEB nebulin [Source:HGNC Symbol;Acc:HGNC:7720]
15	205363_at	2.4	-0.69	0.22	BBOX1 gamma-butyrobetaine hydroxylase 1 [Source:HGNC Symbol;Acc:HGNC:11369]
16	205132_at	2.4	-1.02	0.09	ACTC1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:HGNC:11369]
17	206045_s_at	2.39	-0.93	0.2	NOL4 nucleolar protein 4 [Source:HGNC Symbol;Acc:HGNC:7870]
18	205272_s_at	2.34	-0.52	0.01	PRH2 proline rich protein HaeIII subfamily 2 [Source:HGNC Symbol;Acc:HGNC:11369]
19	209840_s_at	2.32	-0.65	0.27	LRRN3 leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:HGNC:11369]
20	209904_at	2.29	-0.83	0.29	TNNC1 troponin C1, slow skeletal and cardiac type [Source:HGNC Symbol;Acc:HGNC:11369]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	9e-16	26 / 47	GSE/ RICKMAN_HEAD_AND_NECK_CANCER_F
2	4e-15	34 / 83	Refer WIRTH_Muscle
3	2e-13	179 / 1174	Color LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colon_UP
4	5e-11	217 / 1602	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
5	1e-10	675 / 6368	Color LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
6	1e-08	19 / 49	GSE/ EBAUER_MYOGENIC_TARGETS_OF_PAX3_FOXO1_FUSION
7	2e-08	82 / 492	Color LaPointe_mucosa-position_kmeans_C_cecum_colon_ascending_colon_transverse_colon_UP
8	3e-08	17 / 41	MF structural constituent of muscle
9	3e-08	29 / 106	Refer Chaussabel_2_11_Replication
10	4e-08	158 / 1166	Color LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon_ascending_colon_transverse_colon_UP
11	5e-08	42 / 194	HM HALLMARK_MYOGENESIS
12	5e-08	16 / 38	BP muscle filament sliding
13	1e-07	13 / 27	GSE/ REACTOME_STRIATED_MUSCLE_CONTRACTION
14	2e-07	10 / 16	Refer WIRTH_Hippocampus
15	2e-07	20 / 61	GSE/ KUNINGER_IGF1_VS_PDGF_TARGETS_UP
16	3e-07	56 / 310	Refer Chaussabel_3_4_Protein_phosphatases
17	5e-07	55 / 309	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_DN
18	1e-06	15 / 41	BP cardiac muscle contraction
19	3e-06	113 / 830	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
20	3e-06	34 / 165	GSE/ THUM_SYSTOLIC_HEART_FAILURE_DN
21	4e-06	10 / 21	CC muscle myosin complex
22	5e-06	58 / 355	Refer PROTEINATLAS_skeletal_muscle
23	5e-06	38 / 198	GSE/ EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_UP
24	7e-06	12 / 31	GSE/ CHEMELO_SOLEUS_VS_EDL_MYOFIBERS_UP
25	8e-06	9 / 18	GSE/ HUMMERICH_BENIGN_SKIN_TUMOR_DN
26	1e-05	7 / 11	GSE/ DELASERNA_TARGETS_OF_MYOD_AND_SMARCA4
27	2e-05	23 / 99	miRN hsa-miR-664
28	2e-05	11 / 29	BP sarcomere organization
29	2e-05	111 / 848	Color LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_transverse_colon_UP
30	2e-05	14 / 45	GSE/ REACTOME_MUSCLE_CONTRACTION
31	2e-05	69 / 469	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
32	2e-05	9 / 20	BP striated muscle contraction
33	3e-05	8 / 16	GSE/ HUMMERICH_MALIGNANT_SKIN_TUMOR_DN
34	5e-05	18 / 72	GSE/ BILD_CTNNB1_ONCOGENIC_SIGNATURE
35	5e-05	55 / 358	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
36	6e-05	4 / 4	GSE/ MYLYKANGAS_AMPLIFICATION_HOT_SPOT_13
37	7e-05	84 / 621	BP negative regulation of transcription from RNA polymerase II promoter
38	8e-05	120 / 958	Color LaPointe_mucosa-position_kmeans_D_transverse_colon_UP_transverse_colon_UP
39	8e-05	8 / 18	BP regulation of muscle contraction
40	8e-05	13 / 44	CC sarcomere



K-Means Cluster

Spot Summary: K

metagenes = 88
genes = 675

<r> metagenes = 0.78

<r> genes = 0.13

beta: r2= 1.06 / log p= -Inf

samples with spot = 1 (0.5 %)

intermediate : 1 (2.1 %)

Spot Genelist

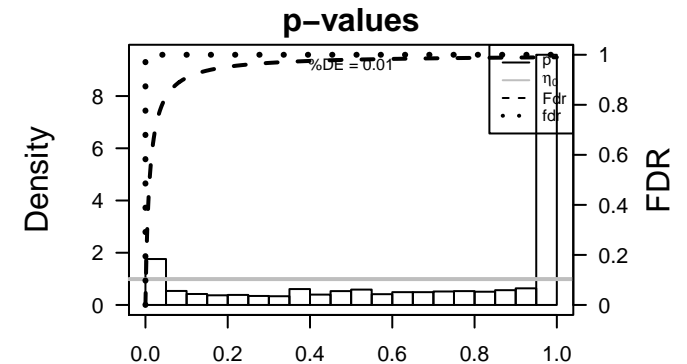
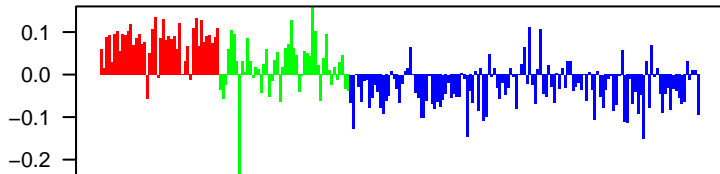
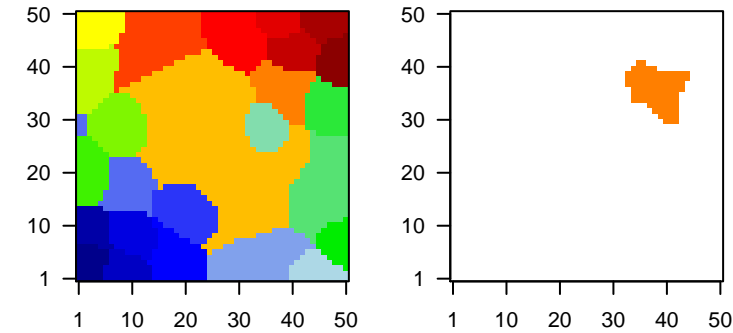
Rank	ID	max e	r	min e	Description
					Symbol
1	206424_at	2.81	-0.68	0.37	CYP26A1 cytochrome P450 family 26 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:16932]
2	204550_x_at	2.33	-1.15	0.16	GSTM4 glutathione S-transferase mu 4 [Source:HGNC Symbol;Acc:HGNC:16932]
3	204281_at	2.28	-1.06	0.27	TEAD4 TEA domain transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:16932]
4	203962_s_at	2.23	-1.27	0.23	NEBL nebulin [Source:HGNC Symbol;Acc:HGNC:16932]
5	215333_x_at	2.19	-1.28	0.18	GSTM4 glutathione S-transferase mu 4 [Source:HGNC Symbol;Acc:HGNC:16932]
6	204418_x_at	2.18	-1.41	0.19	GSTM4 glutathione S-transferase mu 4 [Source:HGNC Symbol;Acc:HGNC:16932]
7	210445_at	2.14	-0.95	0.23	FABP6 fatty acid binding protein 6 [Source:HGNC Symbol;Acc:HGNC:16932]
8	204099_at	1.93	-0.74	0.07	SMARCD3/SMN2 related, matrix associated, actin dependent regulator of cohesin [Source:HGNC Symbol;Acc:HGNC:16932]
9	209859_at	1.78	-0.9	0.25	TRIM9 tripartite motif containing 9 [Source:HGNC Symbol;Acc:HGNC:16932]
10	203961_at	1.76	-0.66	0.32	NEBL nebulin [Source:HGNC Symbol;Acc:HGNC:16932]
11	220051_at	1.68	-0.94	0.09	PRSS21 serine protease 21 [Source:HGNC Symbol;Acc:HGNC:9485]
12	214862_x_at	1.68	-0.7	0.42	
13	32137_at	1.53	-0.57	0.26	JAG2 jagged 2 [Source:HGNC Symbol;Acc:HGNC:6189]
14	211829_s_at	1.53	-0.82	0.36	GPER1 G protein-coupled estrogen receptor 1 [Source:HGNC Symbol;Acc:HGNC:6189]
15	207164_s_at	1.52	-1.06	0.18	ZBTB18 zinc finger and BTB domain containing 18 [Source:HGNC Symbol;Acc:HGNC:6189]
16	209784_s_at	1.5	-0.74	0.32	JAG2 jagged 2 [Source:HGNC Symbol;Acc:HGNC:6189]
17	206492_at	1.49	-0.86	0.24	FHIT fragile histidine triad [Source:HGNC Symbol;Acc:HGNC:3701]
18	220277_at	1.47	-0.77	0.23	CXXC4 CXXC finger protein 4 [Source:HGNC Symbol;Acc:HGNC:24]
19	206264_at	1.45	-0.76	0.43	GPLD1 glycosylphosphatidylinositol specific phospholipase D1 [Source:HGNC Symbol;Acc:HGNC:24]
20	221868_at	1.42	-0.96	0.4	PAIP2B poly(A) binding protein interacting protein 2B [Source:HGNC Symbol;Acc:HGNC:24]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-53	180 / 1161	MF RNA binding
2	2e-47	78 / 232	BP translation
3	5e-38	49 / 105	Refer Chaussabel_2.4_Ribosomal proteins
4	8e-37	49 / 110	BP translational initiation
5	3e-34	40 / 75	GSE/ REACTOME_3_UTR_MEDIATED_TRANSLATIONAL_REGULATION
6	4e-34	176 / 1527	GSE/ PUJANA_BRCA1_PCC_NETWORK
7	6e-32	45 / 110	GSE/ REACTOME_TRANSLATION
8	7e-30	53 / 174	BP rRNA processing
9	1e-28	94 / 575	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
10	3e-28	63 / 268	CC intracellular ribonucleoprotein complex
11	1e-27	38 / 90	BP nuclear-transcribed mRNA catabolic process, nonsense-mediated decay
12	2e-27	41 / 109	MF structural constituent of ribosome
13	2e-26	32 / 64	BP SRP-dependent cotranslational protein targeting to membrane
14	5e-26	30 / 56	GSE/ REACTOME_PEPTIDE_CHAIN_ELONGATION
15	3e-24	33 / 78	GSE/ REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED_BY_THE_E
16	4e-24	64 / 325	GSE/ REACTOME_METABOLISM_OF_PROTEINS
17	4e-24	49 / 190	HM HALLMARK_MYC_TARGETS_V1
18	5e-24	29 / 58	GSE/ KEGG_RIBOSOME
19	2e-23	31 / 71	GSE/ REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND_REPLIC
20	3e-23	33 / 83	BP viral transcription
21	9e-23	41 / 139	CC ribosome
22	2e-22	305 / 4261	Lymp HOPP_Txn_transition
23	3e-22	24 / 41	CC cytosolic large ribosomal subunit
24	3e-21	362 / 5529	Lymp HOPP_Txn_elongation
25	3e-21	61 / 335	GSE/ HSIAO_HOUSEKEEPING_GENES
26	4e-21	81 / 561	Color Pentrack_CRC_TCGA_group.over_C_normal_DN
27	2e-20	23 / 42	GSE/ CHNG_MULTIPLE_MYELOMA_HYPERPLOID_UP
28	2e-20	46 / 200	GSE/ REACTOME_METABOLISM_OF_RNA
29	7e-20	41 / 163	GSE/ REACTOME_METABOLISM_OF_MRNA
30	9e-20	29 / 77	GSE/ REACTOME_SRP_DEPENDENT_COTRANSLATIONAL_PROTEIN_TARG
31	9e-19	32 / 103	GSE/ REACTOME_INFLUENZA_LIFE_CYCLE
32	1e-18	29 / 83	Refer Chaussabel_1.7_MHC_Ribosomal proteins
33	9e-18	22 / 47	GSE/ BILANGES_SERUM_AND_RAPAMYCIN_SENSITIVE_GENES
34	5e-17	129 / 1354	Color LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP
35	1e-16	20 / 41	GSE/ REACTOME_ACTIVATION_OF_THE_MRNA_UPON_BINDING_OF_THE
36	2e-16	85 / 726	GSE/ PUJANA_CHEK2_PCC_NETWORK
37	3e-16	18 / 33	GSE/ REACTOME_FORMATION_OF_THE_TERNARY_COMPLEX_AND_SUBS
38	4e-16	111 / 1107	TF ICGC_Myc_targets
39	4e-16	16 / 25	BP cytoplasmic translation
40	6e-16	114 / 1161	Refer PROTEINATLAS_colon

Overview Map

Spot



K-Means Cluster

Spot Summary: L

metagenes = 93
genes = 518

<r> metagenes = 0.72
<r> genes = 0.1
beta: r2= 1.08 / log p= -Inf

samples with spot = 3 (1.4 %)
non-mBL : 3 (2.3 %)

Spot Genelist

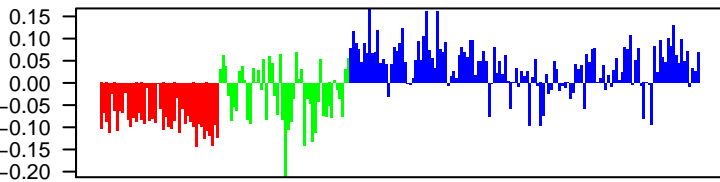
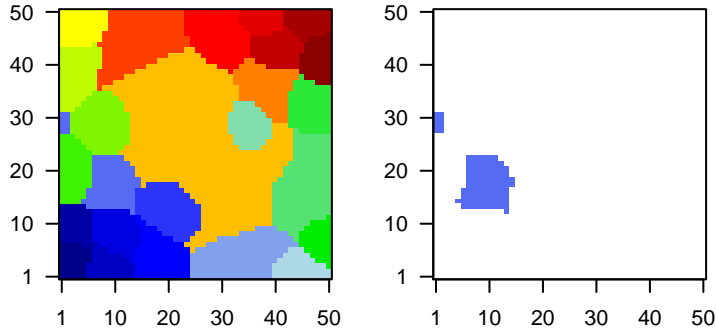
Rank	ID	max e	r	min e	Description
1	207901_at	2.53	-0.61	0.27	IL12B interleukin 12B [Source:HGNC Symbol;Acc:HGNC:5970]
2	211828_s_at	2.43	-0.94	0.43	TNIK TRAF2 and NCK interacting kinase [Source:HGNC Symbol;A
3	220177_s_at	2.28	-0.71	0.2	TMPRSS8transmembrane serine protease 3 [Source:HGNC Symbol;Ac
4	219225_at	2.26	-0.75	0.35	PGBD5 piggyBac transposable element derived 5 [Source:HGNC Syr
5	220105_at	2.23	-1.09	0.32	RSPH14 radial spoke head 14 homolog [Source:HGNC Symbol;Acc:Hi
6	210127_at	2.14	-0.79	0.16	RAB6B RAB6B, member RAS oncogene family [Source:HGNC Symb
7	210675_s_at	2.13	-0.71	0.31	PTPRR protein tyrosine phosphatase, receptor type R [Source:HGNC
8	206084_at	2.12	-0.58	0.31	PTPRR protein tyrosine phosphatase, receptor type R [Source:HGNC
9	204584_at	2.12	-1.05	0.48	L1CAM L1 cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC
10	214890_s_at	2.09	-0.92	0.35	FAM149Afamily with sequence similarity 149 member A [Source:HGNC
11	220384_at	2.07	-0.67	0.05	NME8 NME/NM23 family member 8 [Source:HGNC Symbol;Acc:HG
12	220234_at	1.99	-0.62	0.22	CA8 carbonic anhydrase 8 [Source:HGNC Symbol;Acc:HGNC:13E
13	220673_s_at	1.96	-0.53	0.12	PPP4R4 protein phosphatase 4 regulatory subunit 4 [Source:HGNC S
14	204587_at	1.92	-1.12	0.13	SLC25A15plate carrier family 25 member 14 [Source:HGNC Symbol;A
15	203798_s_at	1.9	-0.65	0.21	VSNL1 visinin like 1 [Source:HGNC Symbol;Acc:HGNC:12722]
16	214319_at	1.9	-0.68	0.03	
17	207681_at	1.86	-1.01	0.49	CXCR3 C-X-C motif chemokine receptor 3 [Source:HGNC Symbol;A
18	206489_s_at	1.83	-0.43	0.25	DLGAP1 DLG associated protein 1 [Source:HGNC Symbol;Acc:HGNC
19	213651_at	1.82	-0.87	0.13	INPP5J inositol polyphosphate-5-phosphatase J [Source:HGNC Syn
20	209686_at	1.81	-0.72	0.29	S100B S100 calcium binding protein B [Source:HGNC Symbol;Acc:J

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-18	281 / 5529	LympI HOPP_Txn_elongation
2	1e-17	71 / 673	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
3	5e-17	231 / 4261	LympI HOPP_Txn_transition
4	7e-16	287 / 5908	LympI HOPP_Active_promoter
5	9e-15	207 / 3805	CC cytosol
6	4e-13	261 / 5404	LympI HOPP_Strong_enhancer
7	9e-13	40 / 317	Cancr SPANG_BCL6-index2
8	2e-12	46 / 417	GSE/ SHEN_SMARCA2_TARGETS_UP
9	4e-12	72 / 883	Color LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_UP
10	7e-12	87 / 1190	GSE/ BLALOCK_ALZHEIMERS_DISEASE_DN
11	7e-12	54 / 564	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN
12	7e-12	94 / 1338	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
13	2e-11	230 / 4701	CC cytoplasm
14	2e-10	334 / 7864	MF protein binding
15	4e-10	260 / 5682	LympI HOPP_Weak_promoter
16	3e-09	36 / 345	CC focal adhesion
17	1e-08	38 / 397	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
18	3e-08	55 / 726	GSE/ REACTOME_IMMUNE_SYSTEM
19	3e-08	50 / 630	GSE/ KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_UP
20	5e-08	84 / 1354	Color LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP
21	6e-08	174 / 3564	TF ICGC_Taf1_targets
22	7e-08	37 / 408	GSE/ REACTOME_ADAPTIVE_IMMUNE_SYSTEM
23	1e-07	43 / 528	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
24	2e-07	91 / 1550	GSE/ PILON_KLF1_TARGETS_DN
25	2e-07	120 / 2239	CC extracellular exosome
26	2e-07	70 / 1083	Color LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_tra
27	2e-07	26 / 237	MF ubiquitin-protein transferase activity
28	2e-07	40 / 479	CC Golgi membrane
29	3e-07	73 / 1166	Color LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon
30	4e-07	40 / 494	CC endosome
31	5e-07	17 / 117	BP autophagy
32	6e-07	60 / 906	LympI SPANG_BCR_DN
33	6e-07	199 / 4357	LympI HOPP_Weak_txn
34	6e-07	40 / 502	BP protein transport
35	8e-07	61 / 935	GSE/ MARSON_BOUND_BY_FOXP3_UNSTIMULATED
36	1e-06	10 / 42	BP interleukin-12-mediated signaling pathway
37	1e-06	21 / 182	GSE/ REACTOME_CLASS_1_MHC_MEDIATED_ANTIGEN_PROCESSING_PR
38	1e-06	15 / 99	GSE/ PID_ERBB1_DOWNSTREAM_PATHWAY
39	2e-06	15 / 100	CC late endosome
40	2e-06	27 / 282	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN

Overview Map

Spot



p-values

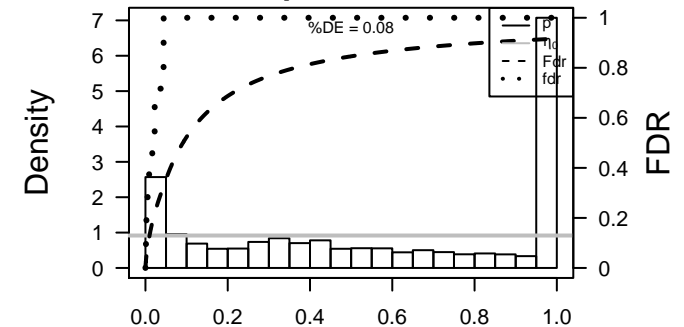


Table with 4 columns: Aging Rank, p-value, #in/all, Geneset. Lists top 15 aging genesets including HOPVAH_aging_genes_meth_UP and TESCHENDORFF_age_hypermethylated.

Table with 4 columns: BP Rank, p-value, #in/all, Geneset. Lists top 15 biological processes including autophagy, protein transport, and interleukin-12-mediated signaling pathway.

Table with 4 columns: Cancer Rank, p-value, #in/all, Geneset. Lists top 15 cancer-associated genesets including SPANC_BCL6-index2 and SPANG_LPS-index2.

Table with 4 columns: CC Rank, p-value, #in/all, Geneset. Lists top 15 cellular components including cytosol, cytoplasm, and focal adhesion.

Table with 4 columns: Chr Rank, p-value, #in/all, Geneset. Lists top 15 chromosomes including Chr 3, Chr X, and Chr 1.

Table with 4 columns: Chromatin states Rank, p-value, #in/all, Geneset. Lists top 15 chromatin states including Thelper cells peripheral blood_1_TssA and Tcells peripheral blood_1_TssA.

Table with 4 columns: Colon Cancer Rank, p-value, #in/all, Geneset. Lists top 15 colon cancer genesets including LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN.

Table with 4 columns: Glioma Rank, p-value, #in/all, Geneset. Lists top 15 glioma genesets including Hopp_Sturm_GBM_Epi3_no_zentr_6_fetus_UP.

Table with 4 columns: GSEA C2 Rank, p-value, #in/all, Geneset. Lists top 15 GSEA C2 genesets including SCHLOSSER_SERUM_RESPONSE_DN and SHEN_SMARCA2_TARGETS_UP.

Table with 4 columns: LIM Rank, p-value, #in/all, Geneset. Lists top 15 LIM genesets including HALLMARK_PROTEIN_SIGNALING and HALLMARK_MTORC1_SIGNALING.

Table with 4 columns: Immunome Rank, p-value, #in/all, Geneset. Lists top 15 immunome genesets including Angelova Immune-metagenome-monoocytes and DUMEAUX_Red blood cells in non smokers literature genes up.

Table with 4 columns: Lifestyle Rank, p-value, #in/all, Geneset. Lists top 15 lifestyle genesets including DUMEAUX_Smoking enriched genes and DUMEAUX_Estrogen related in smokers literature genes up.

Table with 4 columns: Lymphoma Rank, p-value, #in/all, Geneset. Lists top 15 lymphoma genesets including HOPP_Ixn_elongation and HOPP_Ixn_transition.

Table with 4 columns: Melanoma Rank, p-value, #in/all, Geneset. Lists top 15 melanoma genesets including Tirosh_genes preferentially expressed by Tregs and Gerber_wt/wt_melanoma-cells-SpotC.

Table with 4 columns: MF Rank, p-value, #in/all, Geneset. Lists top 15 melanoma-associated genesets including protein binding and ubiquitin-protein transferase activity.

Table with 4 columns: miRNA target Rank, p-value, #in/all, Geneset. Lists top 15 miRNA targets including hsa-miR-141 and hsa-miR-448.

Table with 4 columns: Pneumonia Rank, p-value, #in/all, Geneset. Lists top 15 pneumonia genesets including Terre_MSV_multiple_respiratory_viruses_up and Sweeney_viral_dn.

Table with 4 columns: Reference Signatures Rank, p-value, #in/all, Geneset. Lists top 15 reference signatures including Chaussabel_3.3_Inflammation II and Chaussabel_3.2_Inflammation I.

Table with 4 columns: Telomeres Rank, p-value, #in/all, Geneset. Lists top 15 telomere-associated genesets including Alternative lengthening of telomeres and Nabetani_all_len_telomeres_genes_ko.

Table with 4 columns: TF Rank, p-value, #in/all, Geneset. Lists top 15 transcription factor targets including ICGC_Taf1_targets and ICGC_Nficsc81335_targets.

Table with 4 columns: Reference Signatures Rank, p-value, #in/all, Geneset. Lists top 15 reference signatures including Chaussabel_1.4_Replication and Chaussabel_2.6_Myeloid lineage.

K-Means Cluster

Spot Summary: M

metagenes = 68
genes = 701

<r> metagenes = 0.85
<r> genes = 0.16
beta: r2= 5.39 / log p= -Inf

samples with spot = 50 (22.6 %)
intermediate : 5 (10.4 %)
non-mBL : 45 (34.9 %)

Spot Genelist

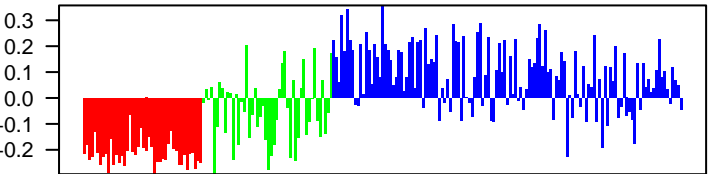
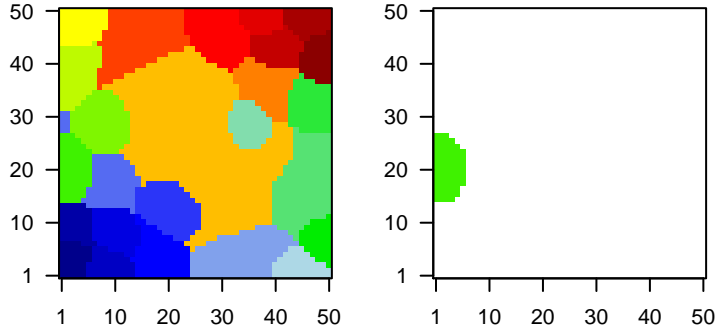
Rank	ID	max e	r	min e	Description
1	209810_at	3.13	-1.02	0.45	SFTPB surfactant protein B [Source:HGNC Symbol;Acc:HGNC:1080]
2	207861_at	2.76	-1.26	0.53	CCL22 C-C motif chemokine ligand 22 [Source:HGNC Symbol;Acc:HGNC:1080]
3	220635_at	2.62	-0.68	0.28	PSORS10 psoriasis susceptibility 1 candidate 2 [Source:HGNC Symbol;Acc:HGNC:1080]
4	204755_x_at	2.62	-0.62	0.4	HLF HLF, PAR bZIP transcription factor [Source:HGNC Symbol;Acc:HGNC:1080]
5	204753_s_at	2.57	-0.91	0.41	HLF HLF, PAR bZIP transcription factor [Source:HGNC Symbol;Acc:HGNC:1080]
6	201839_s_at	2.49	-1.02	0.27	EPCAM epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:1080]
7	203440_at	2.45	-0.91	0.19	CDH2 cadherin 2 [Source:HGNC Symbol;Acc:HGNC:1759]
8	210551_s_at	2.43	-0.93	0.42	ASMT acetylserotonin O-methyltransferase [Source:HGNC Symbol;Acc:HGNC:1080]
9	219360_s_at	2.4	-1.57	0.47	TRPM4 transient receptor potential cation channel subfamily M member 4 [Source:HGNC Symbol;Acc:HGNC:1080]
10	37004_at	2.39	-0.69	0.28	SFTPB surfactant protein B [Source:HGNC Symbol;Acc:HGNC:1080]
11	207534_at	2.39	-0.99	0.24	MAGEB1 MAGE family member B1 [Source:HGNC Symbol;Acc:HGNC:1080]
12	219836_at	2.38	-1.24	0.57	ZBED2 zinc finger BED-type containing 2 [Source:HGNC Symbol;Acc:HGNC:1080]
13	203797_at	2.31	-1.01	0.27	VSNL1 visinin like 1 [Source:HGNC Symbol;Acc:HGNC:12722]
14	213110_s_at	2.3	-0.71	0.24	COL4A5 collagen type IV alpha 5 chain [Source:HGNC Symbol;Acc:HGNC:1080]
15	206881_s_at	2.3	-0.78	0.4	LILRA3 leukocyte immunoglobulin like receptor A3 [Source:HGNC Symbol;Acc:HGNC:1080]
16	218186_at	2.28	-1.29	0.35	RAB25 RAB25, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:1080]
17	210889_s_at	2.27	-1.18	0.13	FCGR2B Fc fragment of IgG receptor IIb [Source:HGNC Symbol;Acc:HGNC:1080]
18	221690_s_at	2.27	-1.48	0.2	NLRP2 NLR family pyrin domain containing 2 [Source:HGNC Symbol;Acc:HGNC:1080]
19	213497_at	2.23	-1.39	0.46	ABTB2 ankyrin repeat and BTB domain containing 2 [Source:HGNC Symbol;Acc:HGNC:1080]
20	217523_at	2.2	-1.4	0.68	CD44 CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:1080]

Geneset Overrepresentation

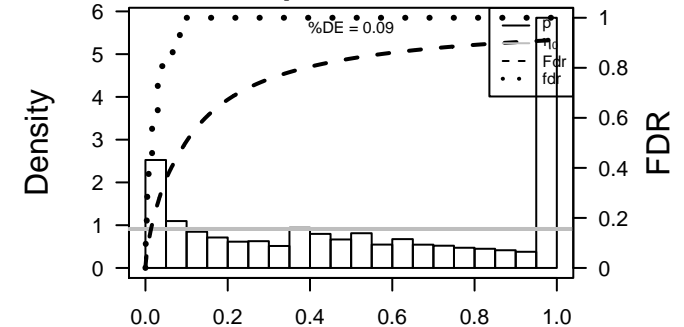
Rank	p-value	#in/all	Geneset
1	1e-24	62 / 317	Cancer SPANG_BCL6-index2
2	9e-23	344 / 5404	Lymph HOPE_Strong_enhancer
3	4e-20	30 / 85	Lymph Aukema_BCL2_DN_BCL6_UP
4	4e-14	40 / 234	GSE/ HOLLMANN_APOPTOSIS_VIA_CD40_DN
5	5e-12	35 / 213	Lymph SPANG_IL21_DN
6	2e-11	11 / 18	Lymph WRIGHT_ABC_UP
7	3e-10	138 / 1941	TF ICGC_Bcl3_targets
8	4e-10	8 / 10	Lymph Care_ABC_UP
9	5e-10	121 / 1636	TF ICGC_Bcl11_targets
10	9e-10	94 / 1166	Color LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon
11	1e-09	14 / 42	Refer Chaussabel_1,3_B-cells
12	2e-09	51 / 480	Cancer Lembcke_Colonc Inflammation
13	2e-09	78 / 906	Lymph SPANG_BCR_DN
14	2e-09	248 / 4261	Lymph HOPP_Txn_transition
15	3e-09	28 / 182	Refer WIRTH_post_GC_B-cells
16	4e-09	28 / 184	Chr Chr 18
17	2e-08	54 / 560	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
18	2e-08	40 / 353	Lymph SPANG_CD40_6hrs_DN
19	5e-08	146 / 2254	TF ICGC_BatPcr1_targets
20	7e-08	192 / 3213	TF ICGC_Pu1_targets
21	9e-08	25 / 173	Lymph Victora_Light_zone_signature
22	9e-08	17 / 85	Lymph Sha_DLBCL_UP
23	1e-07	15 / 67	Immu Angelova_immune-metagenes-T-cells
24	1e-07	14 / 59	GSE/ PID_BCR_5PATHWAY
25	3e-07	32 / 275	GSE/ HADDAD_B_LYMPHOCYTE_PROGENITOR
26	3e-07	31 / 262	GSE/ HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN
27	3e-07	44 / 453	GSE/ ONDER_CDH1_TARGETS_2_DN
28	3e-07	70 / 885	BP positive regulation of transcription from RNA polymerase II promoter
29	4e-07	104 / 1508	TF ICGC_Mef2_targets
30	4e-07	38 / 368	GSE/ ZHENG_BOUND_BY_FOXP3
31	4e-07	21 / 139	GSE/ BROCKE_APOPTOSIS_REVERSED_BY_IL6
32	4e-07	42 / 429	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
33	6e-07	27 / 218	Refer WIRTH_pre-post_GC_B-cells
34	7e-07	14 / 67	GSE/ O'DONNELL_TARGETS_OF_MYC_AND_TFR3_UP
35	8e-07	32 / 290	GSE/ O'DONNELL_TFR3_TARGETS_UP
36	1e-06	308 / 5908	Lymph HOPP_Active_promoter
37	1e-06	16 / 90	GSE/ BASSO_CD40_SIGNALING_UP
38	1e-06	36 / 355	Refer WIRTH_Immune_system
39	2e-06	37 / 376	GSE/ GARY_CD5_TARGETS_UP
40	2e-06	35 / 346	GSE/ YAGI_AML_WITH_T_8_21_TRANSLOCATION

Overview Map

Spot



p-values



K-Means Cluster

Spot Summary: N

metagenes = 79
genes = 565

<r> metagenes = 0.8
<r> genes = 0.13
beta: r2= 2.22 / log p= -Inf

samples with spot = 3 (1.4 %)
intermediate : 1 (2.1 %)
non-mBL : 2 (1.6 %)

Spot Genelist

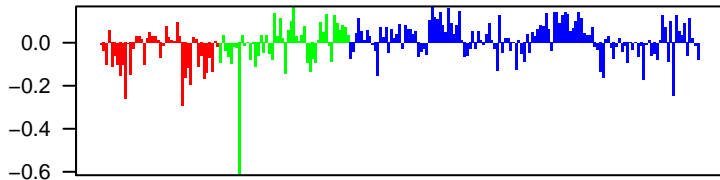
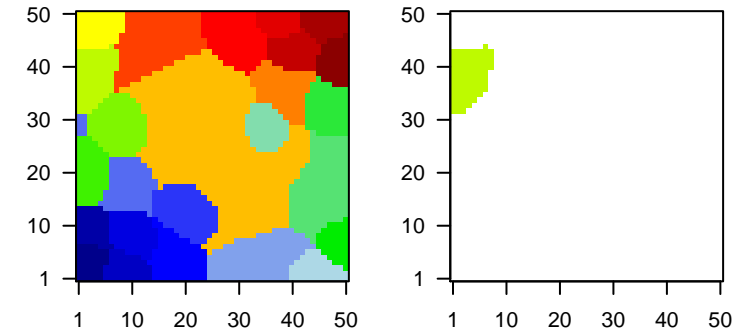
Rank	ID	max e	r	min e	Description
					Symbol
1	220994_s_at	2.07	-1.08	0.12	STXBP6 syntaxin binding protein 6 [Source:HGNC Symbol;Acc:HGNC]
2	215666_at	1.84	-0.76	0.08	
3	213816_s_at	1.72	-0.66	0.2	MET MET proto-oncogene, receptor tyrosine kinase [Source:HGNC]
4	204149_s_at	1.63	-0.9	0.19	GSTM4 glutathione S-transferase mu 4 [Source:HGNC Symbol;Acc:HGNC]
5	210192_at	1.6	-1.09	0.18	ATP8A1 ATPase phospholipid transporting 8A1 [Source:HGNC Symbol;Acc:HGNC]
6	206473_at	1.52	-0.99	0.37	MBTPS2 membrane bound transcription factor peptidase, site 2 [Source:HGNC]
7	214860_at	1.52	-0.83	0.35	SLC9A7 solute carrier family 9 member A7 [Source:HGNC Symbol;Acc:HGNC]
8	205775_at	1.5	-1.09	0.1	FAM50B family with sequence similarity 50 member B [Source:HGNC Symbol;Acc:HGNC]
9	201868_s_at	1.5	-1.05	0.36	TBL1X transducin beta like 1 X-linked [Source:HGNC Symbol;Acc:HGNC]
10	212940_at	1.49	-0.73	0.37	COL6A1 collagen type VI alpha 1 chain [Source:HGNC Symbol;Acc:HGNC]
11	211855_s_at	1.48	-1.16	0.23	SLC25A14 solute carrier family 25 member 14 [Source:HGNC Symbol;Acc:HGNC]
12	211195_s_at	1.47	-0.96	0.32	TP63 tumor protein p63 [Source:HGNC Symbol;Acc:HGNC:15979]
13	211108_s_at	1.46	-0.84	0.56	JAK3 Janus kinase 3 [Source:HGNC Symbol;Acc:HGNC:6193]
14	205170_at	1.43	-1.44	0.59	STAT2 signal transducer and activator of transcription 2 [Source:HGNC]
15	216017_s_at	1.4	-1.3	0.5	NAB2 NGFI-A binding protein 2 [Source:HGNC Symbol;Acc:HGNC]
16	205148_s_at	1.4	-0.91	0.25	CLCN4 chloride voltage-gated channel 4 [Source:HGNC Symbol;Acc:HGNC]
17	208086_s_at	1.4	-0.95	0.14	DMD dystrophin [Source:HGNC Symbol;Acc:HGNC:2928]
18	214318_s_at	1.39	-0.72	0.08	FRY FRY microtubule binding protein [Source:HGNC Symbol;Acc:HGNC]
19	214673_s_at	1.38	-1.31	0.53	HUWE1 HECT, UBA and WWE domain containing 1, E3 ubiquitin protein ligase 1 [Source:HGNC]
20	212272_at	1.37	-0.86	0.28	LPIN1 lipin 1 [Source:HGNC Symbol;Acc:HGNC:13345]

Geneset Overrepresentation

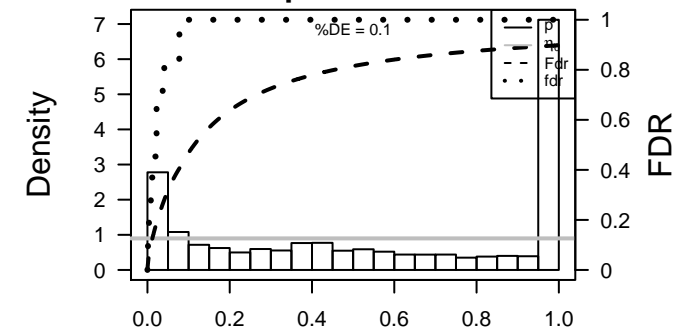
Rank	p-value	#in/all	Geneset
1	4e-29	285 / 4261	LympI HOPP_Txn_transition
2	9e-24	324 / 5529	LympI HOPP_Txn_elongation
3	1e-17	236 / 3805	CC cytosol
4	2e-16	299 / 5404	LympI HOPP_Strong_enhancer
5	7e-16	52 / 376	GSE/ GARY_CD5_TARGETS_UP
6	5e-15	386 / 7864	MF protein binding
7	6e-15	314 / 5908	LympI HOPP_Active_promoter
8	1e-14	59 / 502	BP protein transport
9	3e-13	33 / 190	BP vesicle-mediated transport
10	1e-12	210 / 3564	TF ICGC_Taf1_targets
11	2e-12	90 / 1083	Color LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_transcriptome
12	4e-12	15 / 38	Gliom WILLSCHER_GBM_Verhaak-PNwt_up
13	4e-12	123 / 1729	Color LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP
14	5e-12	23 / 102	GSE/ SCHLOSSER_SERUM_RESPONSE_AUGMENTED_BY_MYC
15	3e-11	187 / 3150	TF ICGC_Creb1_targets
16	4e-11	185 / 3121	TF ICGC_Egr1_targets
17	9e-11	23 / 117	GSE/ JOHNSTONE_PARVB_TARGETS_2_UP
18	3e-10	249 / 4701	CC cytoplasm
19	4e-10	211 / 3804	TF ICGC_Stat5_targets
20	5e-10	33 / 249	GSE/ HUTTMANN_B_CLL_POOR_SURVIVAL_UP
21	9e-10	97 / 1354	Color LaPointe_mucosa-position_kmeans_N_cecum_colon_ascending_colon_UP
22	2e-09	23 / 136	BP ER to Golgi vesicle-mediated transport
23	2e-09	13 / 41	GSE/ FAELT_B_CLL_WITH_VH3_21_UP
24	1e-08	46 / 479	CC Golgi membrane
25	1e-08	33 / 280	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_UP
26	1e-08	16 / 73	miRN hsa-miR-423-5p
27	2e-08	26 / 191	miRN hsa-miR-185
28	2e-08	26 / 191	GSE/ REACTOME_SIGNALLING_BY_NGF
29	3e-08	71 / 938	CC Golgi apparatus
30	3e-08	202 / 3769	TF ICGC_Pmlsc71910_targets
31	3e-08	187 / 3420	TF ICGC_Bclaf101388_targets
32	3e-08	195 / 3608	TF ICGC_Tcf12_targets
33	3e-08	27 / 208	GSE/ RICKMAN_METASTASIS_DN
34	4e-08	22 / 146	GSE/ ELVIDGE_HYPOXIA_DN
35	4e-08	279 / 5682	LympI HOPP_Weak_promoter
36	5e-08	29 / 239	GSE/ GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
37	5e-08	20 / 124	GSE/ SCHLOSSER_SERUM_RESPONSE_UP
38	6e-08	93 / 1387	TF HEBENSTREIT_high expression TF
39	8e-08	18 / 104	CC trans-Golgi network
40	9e-08	201 / 3796	TF ICGC_Nfics81335_targets

Overview Map

Spot



p-values



K-Means Cluster

Spot Summary: O

metagenes = 37
genes = 612

<r> metagenes = 0.94
<r> genes = 0.37
beta: r2= 22.16 / log p= -Inf

samples with spot = 73 (33 %)
intermediate : 1 (2.1 %)
non-mBL : 72 (55.8 %)

Spot Genelist

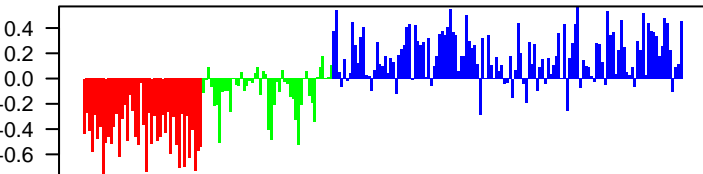
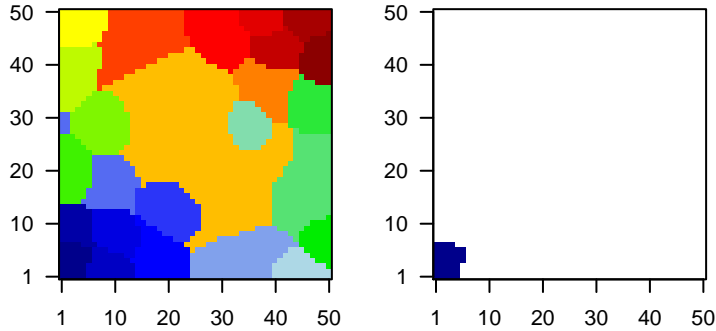
Rank	ID	max e	r	min e	Description
1	207900_at	2.93	-0.94	0.32	CCL17 C-C motif chemokine ligand 17 [Source:HGNC Symbol;Acc:HGNC:10342]
2	217002_s_at	2.74	-1.28	0.3	HTR3A 5-hydroxytryptamine receptor 3A [Source:HGNC Symbol;Acc:HGNC:10342]
3	211644_x_at	2.59	-1.77	0.33	immunoglobulin kappa variable 3-20 [Source:HGNC Symbol;Acc:HGNC:10342]
4	221185_s_at	2.57	-1.49	0.57	IQCG IQ motif containing G [Source:HGNC Symbol;Acc:HGNC:252]
5	214551_s_at	2.53	-1.11	0.61	CD7 CD7 molecule [Source:HGNC Symbol;Acc:HGNC:1695]
6	216615_s_at	2.49	-1.56	0.37	HTR3A 5-hydroxytryptamine receptor 3A [Source:HGNC Symbol;Acc:HGNC:10342]
7	219316_s_at	2.46	-0.79	0.65	FLVCR2 feline leukemia virus subgroup C cellular receptor family member 2 [Source:HGNC Symbol;Acc:HGNC:10342]
8	208451_s_at	2.38	-1.57	0.58	C4A complement C4A (Rodgers blood group) [Source:HGNC Symbol;Acc:HGNC:10342]
9	203535_at	2.34	-1.86	0.58	S100A9 S100 calcium binding protein A9 [Source:HGNC Symbol;Acc:HGNC:10342]
10	217022_s_at	2.33	-2.54	0.46	immunoglobulin heavy constant alpha 2 (A2m marker) [Source:HGNC Symbol;Acc:HGNC:10342]
11	217546_at	2.25	-0.88	0.49	metallothionein 1M [Source:HGNC Symbol;Acc:HGNC:14296]
12	208168_s_at	2.22	-1.13	0.49	CHIT1 chitinase 1 [Source:HGNC Symbol;Acc:HGNC:1936]
13	207245_at	2.21	-1.2	0.38	UGT2B17UDP glucuronosyltransferase family 2 member B17 [Source:HGNC Symbol;Acc:HGNC:10342]
14	205819_at	2.09	-0.95	0.51	MARCO macrophage receptor with collagenous structure [Source:HGNC Symbol;Acc:HGNC:10342]
15	202833_s_at	2.04	-2.04	0.77	SERPINA5serpin family A member 1 [Source:HGNC Symbol;Acc:HGNC:10342]
16	202357_s_at	1.99	-1.29	0.58	CFB complement factor B [Source:HGNC Symbol;Acc:HGNC:10342]
17	212062_at	1.97	-1.07	0.46	ATP9A ATPase phospholipid transporting 9A (putative) [Source:HGNC Symbol;Acc:HGNC:10342]
18	202917_s_at	1.96	-1.75	0.63	S100A8 S100 calcium binding protein A8 [Source:HGNC Symbol;Acc:HGNC:10342]
19	214049_x_at	1.96	-1.08	0.59	CD7 CD7 molecule [Source:HGNC Symbol;Acc:HGNC:1695]
20	210116_at	1.95	-1.66	0.48	SH2D1A SH2 domain containing 1A [Source:HGNC Symbol;Acc:HGNC:10342]

Geneset Overrepresentation

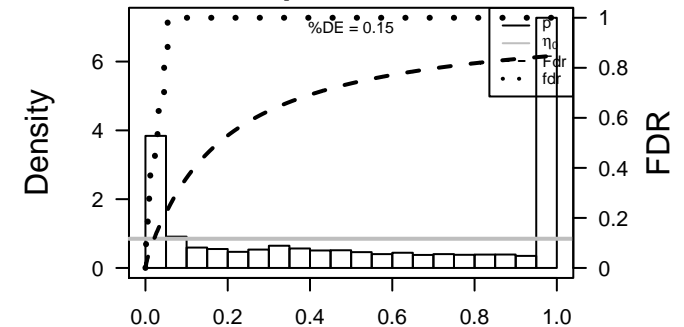
Rank	p-value	#in/all	Geneset
1	1e-99	166 / 589	Colon Lembecke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
2	9e-87	130 / 447	Gliom ScoV_0.999_Sturm_E4_Mesenchymal_RTK_I_PDGFR4_DN
3	1e-66	63 / 102	Refer WIRTH_EBV_B-cells
4	2e-56	53 / 85	Lymph Sha_DLCL UP
5	9e-51	78 / 269	Gliom ScoV_0.5_Sturm_C3_Mesenchymal_DN
6	5e-47	96 / 480	Canci Lembecke_Colonc Inflammation
7	8e-46	69 / 231	Gliom WILLSCHEER_GBM_Verhaak-CL & MES_up
8	8e-46	68 / 223	GSE/ MCLACHLAN_DENTAL_CARIES_UP
9	5e-45	43 / 71	Melar Tirosh_Macrophage specific genes-melanoma
10	3e-44	86 / 404	GSE/ RUTELLA_RESPONSE_TO_HGF_UP
11	4e-41	81 / 386	GSE/ RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
12	6e-41	42 / 78	Melar Tirosh_expression higher in CAFs than in T-cells
13	7e-41	74 / 317	Canci SPANG_BCL6-index2
14	8e-41	60 / 194	GSE/ JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
15	2e-38	61 / 219	GSE/ MCLACHLAN_DENTAL_CARIES_DN
16	4e-35	54 / 186	Canci SPANG_LPS-index2
17	3e-33	61 / 265	GSE/ WALLACE_PROSTATE_CANCER_RACE_UP
18	2e-32	59 / 255	GSE/ HELLER_SILENCED_BY_METHYLATION_UP
19	2e-32	49 / 166	HM HALLMARK_INTERFERON_GAMMA_RESPONSE
20	1e-31	40 / 104	GSE/ ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION
21	1e-31	66 / 336	BP immune response
22	5e-31	67 / 354	GSE/ FULCHER_INFLAMMATORY_RESPONSE_LLECTIN_VS_LPS_DN
23	3e-30	60 / 288	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
24	4e-29	62 / 323	BP inflammatory response
25	6e-29	56 / 261	GSE/ POOLA_INVASIVE_BREAST_CANCER_UP
26	5e-28	45 / 166	GSE/ VERHAAK_AML_WITH_NPM1_MUTATED_UP
27	1e-27	58 / 297	GSE/ RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN
28	1e-27	47 / 187	HM HALLMARK_INFLAMMATORY_RESPONSE
29	3e-27	51 / 229	GSE/ QI_PLASMACYTOMA_UP
30	7e-27	33 / 83	Melar TCGA_melanoma_immune_high
31	8e-27	45 / 176	HM HALLMARK_ALLOGRAFT_REJECTION
32	5e-26	47 / 202	GSE/ VERHAAK_GLIOMASTOMA_MESENCHYMAL
33	1e-25	99 / 902	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
34	3e-24	44 / 190	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
35	5e-24	71 / 516	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
36	5e-24	30 / 78	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP
37	1e-23	64 / 429	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
38	1e-23	89 / 795	GSE/ NUYTEN_EZH2_TARGETS_UP
39	2e-23	58 / 354	GSE/ RODWELL_AGING_KIDNEY_UP
40	2e-23	27 / 62	Lymph Monti_Host_response_cluster

Overview Map

Spot



p-values



K-Means Cluster

Spot Summary: P

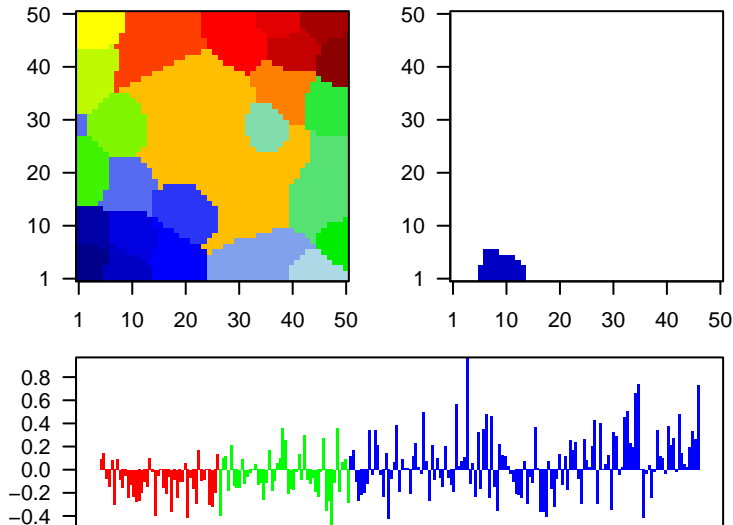
metagenes = 43
genes = 541

<r> metagenes = 0.91
<r> genes = 0.3
beta: r2= 12.03 / log p= -Inf

samples with spot = 50 (22.6 %)
mBL : 1 (2.3 %)
intermediate : 7 (14.6 %)
non-mBL : 42 (32.6 %)

Overview Map

Spot



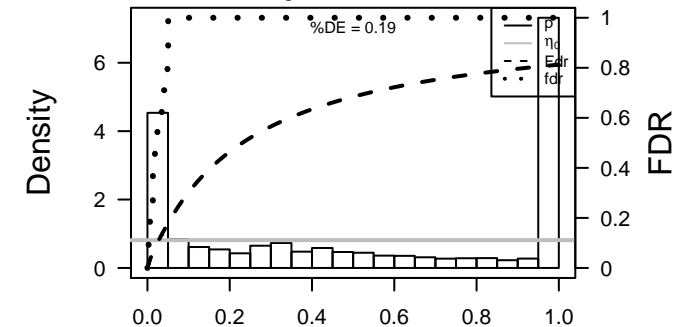
Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	204259_at	3.15	-0.97	0.39	MMP7 matrix metallopeptidase 7 [Source:HGNC Symbol;Acc:HGNC:8499]
2	214465_at	3.11	-0.71	0.48	ORM2 orosomucoid 2 [Source:HGNC Symbol;Acc:HGNC:8499]
3	202018_s_at	3.09	-0.86	0.21	LTF lactotransferrin [Source:HGNC Symbol;Acc:HGNC:6720]
4	205040_at	2.98	-1.17	0.54	ORM1 orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]
5	205041_s_at	2.9	-1.48	0.54	ORM1 orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]
6	205828_at	2.88	-0.77	0.35	MMP3 matrix metallopeptidase 3 [Source:HGNC Symbol;Acc:HGNC:8499]
7	204475_at	2.81	-1.25	0.49	MMP1 matrix metallopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:8499]
8	202859_x_at	2.69	-1.11	0.33	CXCL8 C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:8499]
9	214974_x_at	2.66	-0.89	0.4	CXCL5 C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:8499]
10	205755_at	2.49	-0.9	0.46	ITIH3 inter-alpha-trypsin inhibitor heavy chain 3 [Source:HGNC Sy
11	211597_s_at	2.37	-1.26	0.45	HOPX HOP homeobox [Source:HGNC Symbol;Acc:HGNC:24961]
12	209875_s_at	2.33	-1.91	0.47	SPP1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:HGNC:8499]
13	202718_at	2.31	-1.6	0.49	IGFBP2 insulin like growth factor binding protein 2 [Source:HGNC Syr
14	37892_at	2.31	-0.8	0.56	COL11A1collagen type XI alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:8499]
15	211506_s_at	2.3	-0.85	0.32	CXCL8 C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:8499]
16	204470_at	2.29	-1.07	0.35	CXCL1 C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:8499]
17	207850_at	2.25	-0.9	0.34	CXCL3 C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:8499]
18	204561_x_at	2.19	-1.95	0.31	APOC4-APOC2 readthrough (NMD candidate) [Source:HGNC:8499]
19	218678_at	2.18	-1.04	0.33	NES nestin [Source:HGNC Symbol;Acc:HGNC:7756]
20	203234_at	2.18	-1.33	0.5	UPP1 uridine phosphorylase 1 [Source:HGNC Symbol;Acc:HGNC:1

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	124 / 214	Lymph LENZ_Stromal signature 1
2	1e-99	100 / 196	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
3	1e-99	132 / 335	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
4	6e-82	84 / 176	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
5	5e-74	107 / 397	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
6	3e-69	81 / 212	CC extracellular matrix
7	3e-63	49 / 63	GSE/ ANASTASSIOU_CANCER_MESENCHYMAL_TRANSITION_SIGNATURE
8	2e-62	74 / 197	GSE/ NABA_CORE_MATRISOME
9	5e-61	125 / 747	GSE/ NABA_MATRISOME
10	3e-59	51 / 78	Melar Tirosh_CAF-cell specific genes
11	8e-58	77 / 247	GSE/ BOQUEST_STEM_CELL_UP
12	1e-55	88 / 366	GSE/ LIM_MAMMARY_STEM_CELL_UP
13	5e-55	59 / 132	Color Marisa_CRC-cluster-a
14	3e-53	74 / 253	CC proteinaceous extracellular matrix
15	2e-52	138 / 1090	CC extracellular space
16	6e-52	4 / 14	Canc LIU_PROSTATE_CANCER_DN
17	6e-52	4 / 14	Canc LIU_PROSTATE_CANCER_DN
18	2e-51	103 / 589	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
19	2e-51	85 / 376	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
20	6e-48	55 / 138	GSE/ VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP
21	9e-47	159 / 1611	CC extracellular region
22	2e-45	67 / 249	GSE/ ONDER_CDH1_TARGETS_2_UP
23	4e-45	59 / 183	BP extracellular matrix organization
24	3e-43	69 / 288	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
25	2e-42	82 / 443	GSE/ CHICAS_RB1_TARGETS_CONFLUENT
26	2e-41	50 / 136	GSE/ NABA_ECM_GLYCOPROTEINS
27	2e-41	218 / 3168	Lymph HOPP_Repressed
28	5e-41	71 / 331	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
29	2e-40	58 / 207	GSE/ WANG_SMARCE1_TARGETS_UP
30	1e-39	82 / 480	Canc Lembecke_Colonc Inflammation
31	1e-38	115 / 1001	Color LaPointe_mucosa-position_kmeans_H_cecum_colon_ascending_colon_UP
32	1e-36	71 / 381	GSE/ SWEET_LUNG_CANCER_KRAS_DN
33	1e-36	34 / 60	GSE/ CROMER_TUMORIGENESIS_UP
34	1e-35	38 / 85	Gliom ScoV_0.999_Sturm_E2_IDH_DN
35	4e-35	155 / 1894	Lymph HOPP_Poised_promoter
36	1e-33	31 / 54	GSE/ CROONQUIST_STROMAL_STIMULATION_UP
37	3e-33	57 / 262	GSE/ PASINI_SUZ12_TARGETS_DN
38	4e-33	41 / 117	GSE/ ZHU_CMV_ALL_DN
39	1e-32	69 / 412	GSE/ BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP
40	4e-32	53 / 231	Gliom WILLSCHER_GBM_Verhaak-CL & MES_up

p-values



K-Means Cluster

Spot Summary: Q

metagenes = 65
genes = 543

<r> metagenes = 0.87

<r> genes = 0.19

beta: r2= 4.55 / log p= -Inf

samples with spot = 38 (17.2 %)

intermediate : 3 (6.2 %)

non-mBL : 35 (27.1 %)

Spot Genelist

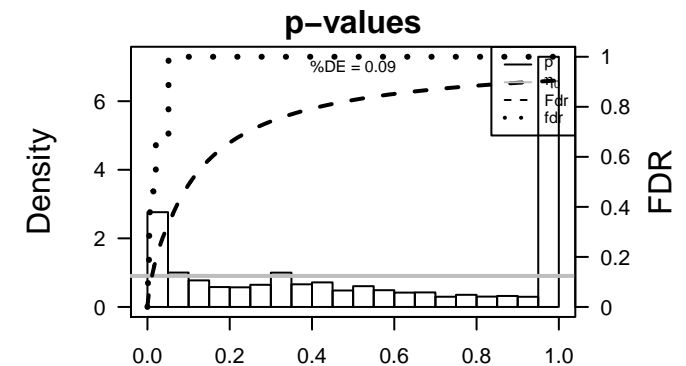
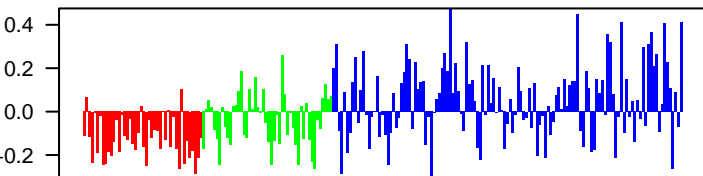
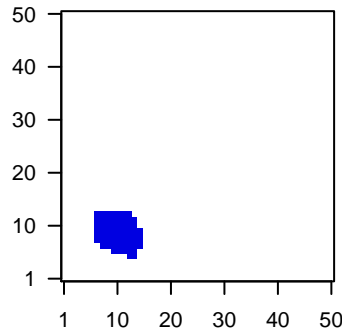
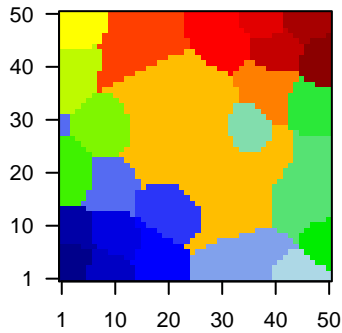
Rank	ID	max e	r	min e	Description
1	216853_x_at	3.78	-1.3	0.43	immunoglobulin lambda variable 3-19 [Source:HGNC Symbol]
2	214777_at	3.45	-1.71	0.36	immunoglobulin kappa variable 4-1 [Source:HGNC Symbol;A]
3	216560_x_at	3.43	-1.18	0.41	immunoglobulin lambda variable 3-10 [Source:HGNC Symbol]
4	217281_x_at	3.13	-1.46	0.45	immunoglobulin heavy variable 3-7 [Source:HGNC Symbol;A]
5	211634_x_at	2.97	-1.71	0.38	immunoglobulin heavy variable 1-69 [Source:HGNC Symbol;]
6	216365_x_at	2.94	-0.92	0.32	
7	216984_x_at	2.81	-1.47	0.42	
8	211650_x_at	2.76	-1.14	0.4	immunoglobulin heavy variable 3-23 [Source:HGNC Symbol;]
9	216412_x_at	2.72	-0.9	0.22	
10	214768_x_at	2.67	-1.59	0.41	immunoglobulin kappa variable 2-28 [Source:HGNC Symbol;]
11	215214_at	2.64	-1.12	0.44	immunoglobulin lambda variable 3-25 [Source:HGNC Symbol]
12	211640_x_at	2.62	-1.03	0.39	
13	211861_x_at	2.6	-0.7	0.5	CD28 CD28 molecule [Source:HGNC Symbol;Acc:HGNC:1653]
14	214470_at	2.58	-1.02	0.53	KLRB1 killer cell lectin like receptor B1 [Source:HGNC Symbol;Acc:H]
15	211635_x_at	2.55	-1.67	0.37	immunoglobulin heavy variable 1-69 [Source:HGNC Symbol;]
16	211643_x_at	2.53	-1.39	0.45	
17	211856_x_at	2.52	-0.69	0.45	CD28 CD28 molecule [Source:HGNC Symbol;Acc:HGNC:1653]
18	210439_at	2.5	-0.93	0.5	ICOS inducible T cell costimulator [Source:HGNC Symbol;Acc:HGNC]
19	217179_x_at	2.49	-1.3	0.22	
20	210547_x_at	2.48	-1.17	0.31	ICA1 islet cell autoantigen 1 [Source:HGNC Symbol;Acc:HGNC:53]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-30	82 / 589	Colon Lembcke_TCGA-expr_kmeans_E_CIMP.H_UP_Cluster4_DN
2	7e-26	65 / 431	BP immune system process
3	2e-25	51 / 265	GSE# WALLACE_PROSTATE_CANCER_RACE_UP
4	7e-23	54 / 336	BP immune response
5	5e-21	53 / 354	GSE# FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_DN
6	1e-20	58 / 429	GSE# SMID_BREAST_CANCER_NORMAL_LIKE_UP
7	2e-20	19 / 33	Lymp# Care_Extended T-cell
8	3e-19	188 / 3210	CC plasma membrane
9	3e-19	53 / 386	GSE# RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
10	1e-18	28 / 102	Refer WIRTH_EBV B-cells
11	2e-18	53 / 404	GSE# RUTELLA_RESPONSE_TO_HGF_UP
12	1e-17	33 / 161	BP adaptive immune response
13	4e-17	54 / 447	Gliom# ScoV_0.999_Sturm_E4_Mesenchymal_RTK I 'PDGFRA'_DN
14	4e-17	23 / 73	GSE# HECKER_IFNB1_TARGETS
15	2e-16	21 / 62	Lymp# Monti_Host_response_cluster
16	2e-16	15 / 26	GSE# MOSERLE_IFNA_RESPONSE
17	5e-16	22 / 72	Refer Chaussabel_3.1_Interferon-inducible
18	5e-16	20 / 57	Pneu# Burnham_viral_UP
19	9e-16	255 / 5339	CC membrane
20	8e-15	16 / 37	Pneu# Sweeney_viral_up
21	1e-14	17 / 44	MF antigen binding
22	2e-14	54 / 516	GSE# SMID_BREAST_CANCER_LUMINAL_B_DN
23	5e-14	46 / 397	Color Pentrack_CRC_TCGA_corr_C_normal_UP
24	8e-14	74 / 902	GSE# CHEN_METABOLIC_SYNDROM_NETWORK
25	9e-14	39 / 297	GSE# RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN
26	2e-13	20 / 76	HM HALLMARK_INTERFERON_ALPHA_RESPONSE
27	3e-13	17 / 52	Pneu# Burnham_day1_vs_5_DN
28	3e-13	26 / 138	GSE# TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP
29	4e-13	67 / 795	GSE# NUYTEN_EZH2_TARGETS_UP
30	5e-13	15 / 39	BP complement activation
31	6e-13	22 / 99	Refer Chaussabel_1.5_Myeloid lineage
32	1e-12	172 / 3270	CC integral component of membrane
33	1e-12	22 / 102	GSE# KEGG_LYSOSOME
34	1e-12	23 / 113	BP regulation of immune response
35	2e-12	37 / 299	GSE# DEURIG_T_CELL_PROLYMPHOCTIC_LEUKEMIA_DN
36	3e-12	44 / 412	GSE# BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP
37	4e-12	27 / 166	HM HALLMARK_INTERFERON_GAMMA_RESPONSE
38	4e-12	19 / 78	Melar Tirosh_expression higher in CAFs than in T-cells
39	4e-12	41 / 367	BP innate immune response
40	5e-12	40 / 353	GSE# JOHNSTONE_PARVB_TARGETS_3_UP

Overview Map

Spot



K-Means Cluster

Spot Summary: R

metagenes = 85
genes = 656

<r> metagenes = 0.82
<r> genes = 0.14
beta: r2= 2.28 / log p= -Inf

samples with spot = 13 (5.9 %)
non-mBL : 13 (10.1 %)

Spot Genelist

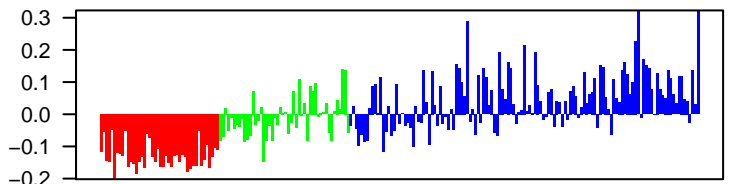
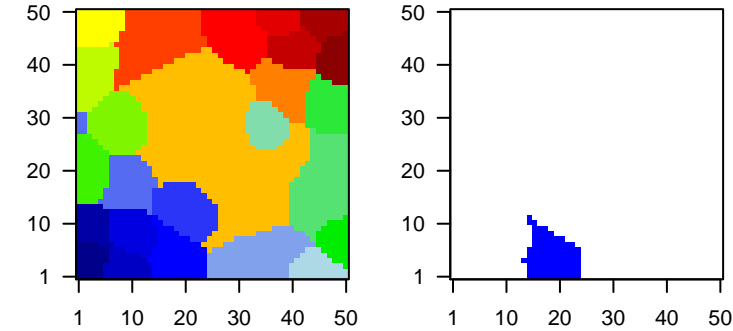
Rank	ID	max e	r	min e	Description
					Symbol
1	211583_x_at	3.03	-1.02	0.08	NCR3 natural cytotoxicity triggering receptor 3 [Source:HGNC Synt
2	207599_at	2.71	-0.65	0.27	MMP20 matrix metalloproteinase 20 [Source:HGNC Symbol;Acc:HGNC
3	206310_at	2.54	-0.92	0.29	SPINK2 serine peptidase inhibitor, Kazal type 2 [Source:HGNC Symb
4	205373_at	2.5	-0.78	0.26	CTNNA2 catenin alpha 2 [Source:HGNC Symbol;Acc:HGNC:2510]
5	215101_s_at	2.45	-0.8	0.3	CXCL5 C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc
6	209948_at	2.35	-0.7	0.28	KCNMB1 potassium calcium-activated channel subfamily M regulatory
7	204540_at	2.25	-0.76	0.27	EEF1A2 eukaryotic translation elongation factor 1 alpha 2 [Source:HG
8	215813_s_at	2.25	-0.94	0.62	PTGS1 prostaglandin-endoperoxide synthase 1 [Source:HGNC Syml
9	214460_at	2.23	-0.96	0.24	LSAMP limbic system-associated membrane protein [Source:HGNC
10	208555_x_at	2.2	-0.9	0.4	CST2 cystatin SA [Source:HGNC Symbol;Acc:HGNC:2474]
11	204392_at	2.18	-1.11	0.43	CAMK1 calcium/calmodulin dependent protein kinase I [Source:HGNC
12	204591_at	2.15	-1.03	0.23	CHL1 cell adhesion molecule L1 like [Source:HGNC Symbol;Acc:HG
13	205128_x_at	2.13	-1.29	0.54	PTGS1 prostaglandin-endoperoxide synthase 1 [Source:HGNC Syml
14	221259_s_at	2.12	-0.6	0.26	TEX11 testis expressed 11 [Source:HGNC Symbol;Acc:HGNC:1173
15	205990_s_at	2.09	-1.31	0.22	WNT5A Wnt family member 5A [Source:HGNC Symbol;Acc:HGNC:12
16	212909_at	2.08	-0.77	0.21	LYPD1 LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc
17	218532_s_at	2.06	-1.12	0.48	RETREG1 reticulophagy regulator 1 [Source:HGNC Symbol;Acc:HGNC
18	222288_at	2.05	-0.78	0.51	
19	213338_at	2.05	-0.87	0.42	TMEM158 transmembrane protein 158 (gene/pseudogene) [Source:HG
20	201984_s_at	2.04	-0.64	0.29	EGFR epidermal growth factor receptor [Source:HGNC Symbol;Acc

Geneset Overrepresentation

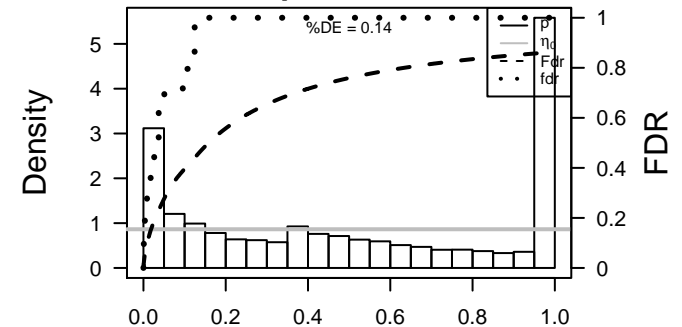
Rank	p-value	#in/all	Geneset
1	2e-14	135 / 1602	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
2	4e-13	53 / 397	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
3	3e-12	98 / 1083	Colon LaPointe_mucosa-position_kmeans_J_ cecum colon_ascending colon_tran
4	7e-11	311 / 5339	CC membrane
5	1e-10	313 / 5404	Lympi HOPP_Strong_enhancer
6	2e-10	98 / 1166	Colon LaPointe_mucosa-position_kmeans_K_transverse colon_UP_ cecum colon
7	4e-10	48 / 407	GSE/ MITSIADES_RESPONSE_TO_APLIDIN_UP
8	8e-10	41 / 321	GSE/ PHONG_TNF_RESPONSE_NOT_VIA_P38
9	2e-09	42 / 345	CC focal adhesion
10	2e-09	78 / 883	Colon LaPointe_mucosa-position_kmeans_L_transverse colon_ cecum colon_DN
11	2e-09	275 / 4701	CC cytoplasm
12	3e-09	81 / 938	CC Golgi apparatus
13	4e-09	42 / 353	GSE/ JOHNSTONE_PARVB_TARGETS_3_UP
14	5e-09	78 / 902	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
15	1e-08	317 / 5682	Lympi HOPP_Weak_promoter
16	2e-08	55 / 560	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
17	5e-08	408 / 7864	MF protein binding
18	1e-07	50 / 512	GSE/ WEST_ADRENOCORTICAL_TUMOR_DN
19	1e-07	29 / 218	GSE/ PHONG_TNF_RESPONSE_VIA_P38_COMPLETE
20	1e-07	26 / 183	GSE/ ZHANG_TLX_TARGETS_36HR_UP
21	1e-07	67 / 788	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
22	2e-07	27 / 197	GSE/ MANALO_HYPOXIA_UP
23	2e-07	47 / 477	GSE/ NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CENTRAL_DN
24	2e-07	31 / 251	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
25	3e-07	57 / 642	GSE/ CUI_TCF21_TARGETS_2_DN
26	5e-07	33 / 288	Color Pentrack_CRC_TCGA_corr_J_msi-h_up_mss_DN
27	7e-07	20 / 127	GSE/ ELVIDGE_HYPOXIA_BY_DMOG_UP
28	1e-06	49 / 537	CC perinuclear region of cytoplasm
29	1e-06	23 / 166	GSE/ ELVIDGE_HYPOXIA_UP
30	1e-06	22 / 155	GSE/ MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP
31	1e-06	10 / 34	GSE/ BIOCARTA_INTEGRIN_PATHWAY
32	1e-06	71 / 906	Lympi SPANG_BCR_DN
33	1e-06	316 / 5908	Lympi HOPP_Active_promoter
34	1e-06	34 / 317	Canc SPANG_BCL6-index2
35	2e-06	35 / 333	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_DN
36	2e-06	78 / 1035	CC endoplasmic reticulum
37	2e-06	20 / 135	MF actin filament binding
38	2e-06	37 / 364	miRN hsa-miR-548n
39	2e-06	47 / 518	GSE/ MILLI_PSEUDOPODIA_HAPTOTAXIS_DN
40	2e-06	55 / 648	GSE/ KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3

Overview Map

Spot



p-values



K-Means Cluster

Spot Summary: S

metagenes = 666

genes = 6172

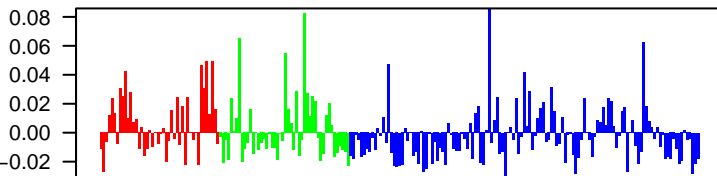
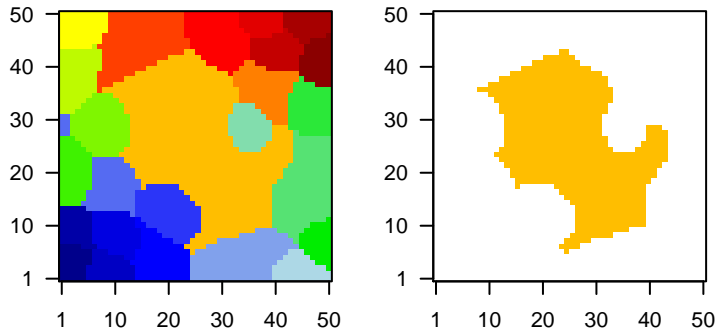
<r> metagenes = 0.12

beta: r2= 0.03 / log p= -1.89

samples with spot = 0 (0 %)

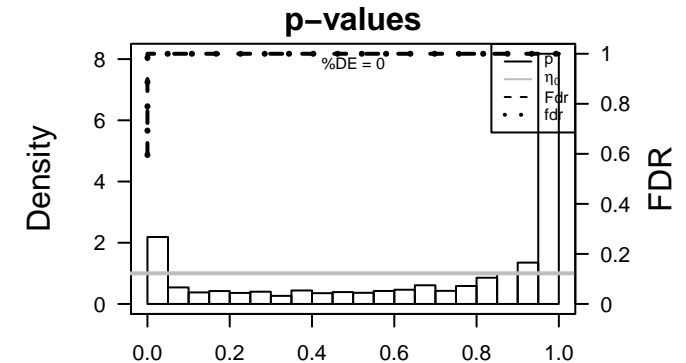
Overview Map

Spot



Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	1492 / 3168	LympI HOPP_Repressed
2	1e-99	2694 / 6368	Colon LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
3	3e-60	600 / 1148	TF HEBENSTREIT_low expression TF
4	2e-43	240 / 373	GSE# MIKKELSEN_MEF_HCP_WITH_H3K27ME3
5	3e-42	392 / 730	GSE# BENPORATH_ES_WITH_H3K27ME3
6	5e-41	826 / 1894	LympI HOPP_Poised_promoter
7	6e-40	218 / 337	MF G-protein coupled receptor activity
8	2e-38	328 / 595	BP G-protein coupled receptor signaling pathway
9	2e-37	221 / 352	Refer WIRTH_Nervous System
10	8e-34	525 / 1128	CC integral component of plasma membrane
11	3e-33	162 / 240	GSE# KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION
12	3e-31	245 / 432	GSE# BENPORATH_PRC2_TARGETS
13	4e-31	137 / 195	BP chemical synaptic transmission
14	8e-31	352 / 697	GSE# BENPORATH_SUZ12_TARGETS
15	5e-29	112 / 151	MF ion channel activity
16	5e-29	234 / 417	GSE# REACTOME_GPCR_DOWNSTREAM_SIGNALING
17	9e-29	353 / 713	GSE# BENPORATH_EED_TARGETS
18	9e-29	268 / 500	MF signal transducer activity
19	1e-28	1223 / 3210	CC plasma membrane
20	6e-27	268 / 510	GSE# REACTOME_SIGNALING_BY_GPCR
21	7e-27	690 / 1652	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
22	1e-26	106 / 145	BP response to stimulus
23	1e-25	170 / 284	GSE# MIKKELSEN_MCV6_HCP_WITH_H3K27ME3
24	4e-24	577 / 1361	BP signal transduction
25	1e-23	208 / 382	CC synapse
26	3e-23	248 / 482	BP ion transport
27	8e-23	182 / 324	GSE# REACTOME_GPCR_LIGAND_BINDING
28	5e-22	78 / 102	Gliom WILLSCHER_GBM_Verhaak-PN (mut&wt)_up_(MES&CL down)
29	2e-21	79 / 105	Gliom WIRTH_Normal Brain
30	1e-20	172 / 311	GSE# SHEN_SMARCA2_TARGETS_DN
31	4e-20	88 / 126	Gliom ScoV_0.999_Sturm_E5_RTK II 'Classic'_UP_RTK I 'PDGFRA'_DN
32	5e-20	65 / 82	Refer WIRTH_Testis
33	5e-20	136 / 230	GSE# REACTOME_NEURONAL_SYSTEM
34	3e-19	155 / 278	Color Lembcke_TCGA_meth_kmeans_H_CIMP.L_UP_CIMP.H_DN
35	3e-18	459 / 1092	GSE# YOSHIMURA_MAPK8_TARGETS_UP
36	5e-18	1185 / 3270	CC integral component of membrane
37	5e-18	136 / 239	GSE# REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS
38	8e-18	362 / 826	GSE# ZWANG_TRANSIENTLY_UP_BY_2ND_EGF_PULSE_ONLY
39	2e-17	206 / 414	Gliom Hopp_Sturm_GBM_Epi3_A_adult_fetus_UP_G34_DN
40	7e-17	113 / 191	Gliom ScoV_0.5_Sturm_C2_RTK I 'PDGFRA'_DN



K-Means Cluster

Spot Summary: T

metagenes = 41
genes = 697

<r> metagenes = 0.92
<r> genes = 0.28
beta: r2= 5.64 / log p= -Inf

samples with spot = 35 (15.8 %)
mBL : 5 (11.4 %)
intermediate : 9 (18.8 %)
non-mBL : 21 (16.3 %)

Spot Genelist

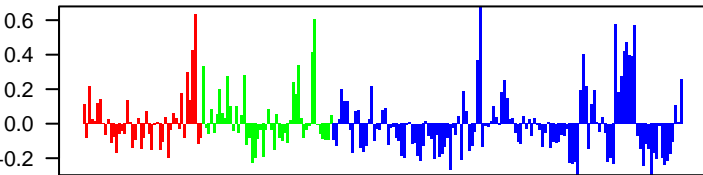
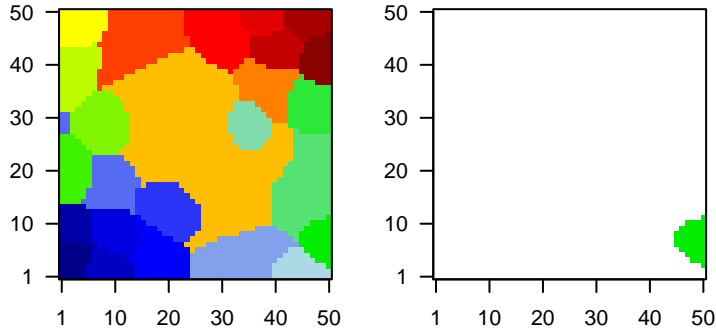
Rank	ID	max e	r	min e	Description Symbol
1	216766_at	2.26	-0.64	0.68	
2	222357_at	2.23	-0.66	0.62	ZBTB20 zinc finger and BTB domain containing 20 [Source:HGNC Syr
3	215200_x_at	2.17	-1.11	0.58	
4	222073_at	2.16	-0.87	0.38	COL4A3 collagen type IV alpha 3 chain [Source:HGNC Symbol;Acc:HG
5	204073_s_at	2.15	-0.65	0.16	MYRF myelin regulatory factor [Source:HGNC Symbol;Acc:HGNC:1
6	214753_at	2.14	-1.23	0.73	
7	212225_at	2.11	-0.84	0.45	EIF1 eukaryotic translation initiation factor 1 [Source:HGNC Symbr
8	207492_at	2.1	-1.01	0.74	
9	205316_at	2.09	-0.97	0.55	SLC15A2solute carrier family 15 member 2 [Source:HGNC Symbol;Acc
10	220918_at	2.03	-0.81	0.79	
11	207078_at	1.96	-0.94	0.73	MED6 mediator complex subunit 6 [Source:HGNC Symbol;Acc:HGNC
12	208268_at	1.89	-0.91	0.53	ADAM28 ADAM metallopeptidase domain 28 [Source:HGNC Symbol;A
13	215392_at	1.89	-0.68	0.77	
14	208195_at	1.84	-1.07	0.35	TTN titin [Source:HGNC Symbol;Acc:HGNC:12403]
15	222375_at	1.83	-0.72	0.68	
16	220940_at	1.83	-1.2	0.75	
17	215164_at	1.82	-1.12	0.55	
18	213931_at	1.82	-1.03	0.39	ID2 inhibitor of DNA binding 2 [Source:HGNC Symbol;Acc:HGNC
19	215768_at	1.81	-0.79	0.42	
20	217534_at	1.8	-0.88	0.75	FAM49B family with sequence similarity 49 member B [Source:HGNC :

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-48	149 / 1174	Colon LaPointe_mucosa-position_kmeans_E_transverse colon_UP_transverse c
2	7e-42	60 / 188	Refer Chaussabel_3_8_Enzymes
3	6e-29	261 / 4261	LympI HOPP_Txn_transition
4	2e-27	50 / 218	Refer WIRTH_pre+post GC B-cells
5	7e-22	291 / 5529	LympI HOPP_Txn_elongation
6	1e-20	16 / 20	Refer Chaussabel_2_7_Unknown function
7	3e-19	62 / 492	Colon LaPointe_mucosa-position_kmeans_C_cecum colon_ascending colon_tra
8	2e-15	28 / 127	GSE/ GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_DN
9	6e-15	7 / 14	Canci LIU_COMMON_CANCER_GENES
10	6e-15	7 / 14	Canci LIU_COMMON_CANCER_GENES
11	5e-14	19 / 59	Gliom WILLSCHER_GBM_Verhaak-PNwt & MES_up
12	4e-13	35 / 239	GSE/ GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
13	6e-12	107 / 1602	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
14	7e-12	70 / 852	MF nucleic acid binding
15	1e-10	24 / 143	GSE/ LEE_DIFFERENTIATING_T_LYMPHOCYTE
16	2e-10	25 / 159	GSE/ JISON_SICKLE_CELL_DISEASE_DN
17	8e-10	182 / 3564	TF ICGC_Taf1_targets
18	1e-09	9 / 17	GSE/ SPIRA_SMOKERS_LUNG_CANCER_DN
19	2e-09	19 / 102	Lymp ROSOLOWSKI_blue total
20	3e-09	32 / 281	BP mRNA processing
21	3e-09	218 / 4579	CC nucleus
22	7e-09	264 / 5908	Lymp HOPP_Active_promoter
23	1e-08	17 / 92	GSE/ HOEBEKE_LYMPHOID_STEM_CELL_UP
24	5e-08	11 / 39	GSE/ BILBAN_B_CLL_LPL_DN
25	8e-08	60 / 848	Color LaPointe_mucosa-position_kmeans_O_transverse colon_UP_
26	1e-07	47 / 600	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_DN
27	1e-07	26 / 233	BP RNA splicing
28	1e-07	74 / 1161	MF RNA binding
29	2e-07	40 / 477	GSE/ NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CENTRAL_DN
30	2e-07	19 / 136	GSE/ REACTOME_MRNA_PROCESSING
31	2e-07	14 / 75	GSE/ LAIHO_COLORECTAL_CANCER_SERRATED_DN
32	2e-07	21 / 165	GSE/ THUM_SYSTOLIC_HEART_FAILURE_DN
33	3e-07	239 / 5404	Lymp HOPP_Strong_enhancer
34	4e-07	24 / 214	GSE/ CHEN_HOXA5_TARGETS_9HR_UP
35	4e-07	8 / 22	Refer Chaussabel_1_6_Signaling molecules
36	4e-07	155 / 3150	TF ICGC_Creb1_targets
37	5e-07	52 / 730	GSE/ ONKEN_UVEAL_MELANOMA_UP
38	5e-07	79 / 1312	GSE/ PUJANA_ATM_PCC_NETWORK
39	8e-07	17 / 120	GSE/ REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE
40	1e-06	178 / 3796	TF ICGC_Nficsc81335_targets

Overview Map

Spot



p-values

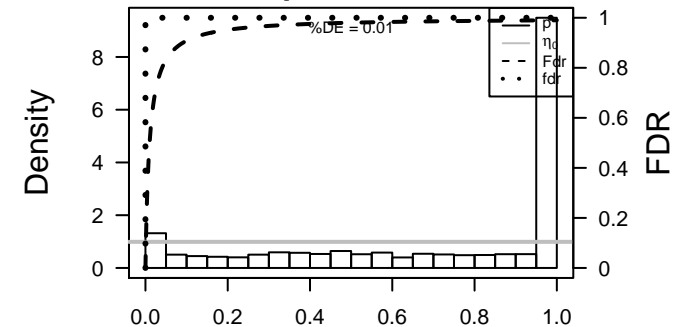


Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for AGING related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for CC related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Colon Cancer related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for LIM related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Lymphoma related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for miRNA target related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Telomeres related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for BP related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Chr related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Glioma related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Immunome related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Melanoma related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Pneumonia related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for TE related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Cancer related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Chromatin states related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for GSEA C2 related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Lifestyle related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for MF related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for Reference Signatures related genesets.

Table with 4 columns: Rank, p-value, #in/all, Geneset. Contains data for TF related genesets.

K-Means Cluster

Spot Summary: U

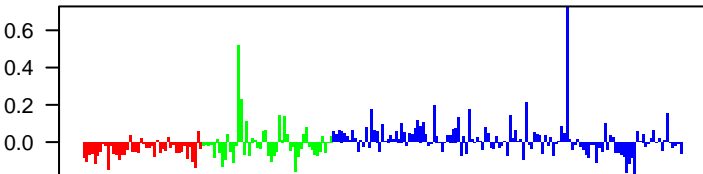
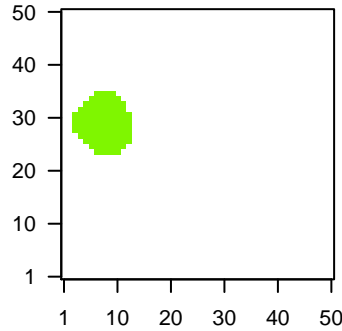
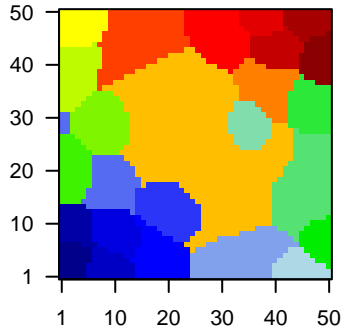
metagenes = 102
genes = 554

<r> metagenes = 0.76
<r> genes = 0.1
beta: r2= 1.4 / log p= -Inf

samples with spot = 8 (3.6 %)
intermediate : 2 (4.2 %)
non-mBL : 6 (4.7 %)

Overview Map

Spot

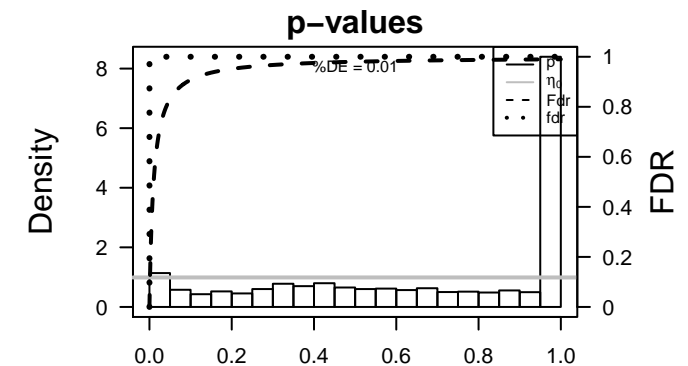


Spot Genelist

Rank	ID	max e	r	min e	Description
1	207663_x_at	3.8	-0.83	0.24	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
2	206640_x_at	3.58	-0.65	0.2	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
3	211425_x_at	3.5	-0.75	0.48	SSX family member 6, pseudogene [Source:HGNC Symbol;A
4	208235_x_at	3.42	-0.72	0.22	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
5	207739_s_at	3.42	-1.01	0.3	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
6	207086_x_at	3.38	-0.68	0.22	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
7	208155_x_at	3.36	-0.82	0.22	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
8	209942_x_at	3.13	-0.71	0.37	MAGEA3MAGE family member A3 [Source:HGNC Symbol;Acc:HGNC
9	210394_x_at	3.08	-0.76	0.47	SSX family member 6, pseudogene [Source:HGNC Symbol;A
10	207666_x_at	3	-0.6	0.39	SSX3 SSX family member 3 [Source:HGNC Symbol;Acc:HGNC:11
11	210497_x_at	3	-0.67	0.43	SSX3 SSX family member 3 [Source:HGNC Symbol;Acc:HGNC:11
12	214612_x_at	3	-0.72	0.37	MAGEA3MAGE family member A3 [Source:HGNC Symbol;Acc:HGNC
13	214957_at	2.96	-0.84	0.18	ACTL8 actin like 8 [Source:HGNC Symbol;Acc:HGNC:24018]
14	206018_at	2.95	-0.82	0.13	FOXG1 forkhead box G1 [Source:HGNC Symbol;Acc:HGNC:3811]
15	206626_x_at	2.85	-0.74	0.47	SSX1 SSX family member 1 [Source:HGNC Symbol;Acc:HGNC:11
16	220377_at	2.84	-1.15	0.16	family with sequence similarity 30 member A [Source:HGNC :
17	207325_x_at	2.83	-0.79	0.39	MAGEA1MAGE family member A1 [Source:HGNC Symbol;Acc:HGNC
18	206574_s_at	2.79	-1.22	0.39	PTP4A3 protein tyrosine phosphatase type IVA, member 3 [Source:HC
19	206834_at	2.78	-0.67	0.48	HBD hemoglobin subunit delta [Source:HGNC Symbol;Acc:HGNC:
20	214254_at	2.78	-0.63	0.26	MAGEA4MAGE family member A4 [Source:HGNC Symbol;Acc:HGNC

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-36	123 / 1035	CC endoplasmic reticulum
2	5e-31	35 / 77	Lympi TARTE_Plasma cell signature
3	9e-29	33 / 75	GSE/ TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
4	5e-28	88 / 683	CC endoplasmic reticulum membrane
5	2e-19	41 / 216	GSE/ PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP
6	3e-19	25 / 71	GSE/ REACTOME_ASPARAGINE_N_LINKED_GLYCOSYLATION
7	2e-17	61 / 518	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_DN
8	3e-17	31 / 137	GSE/ REACTOME_POST_TRANSLATIONAL_PROTEIN_MODIFICATION
9	2e-13	260 / 5339	CC membrane
10	4e-13	15 / 37	GSE/ KEGG_N_GLYCAN_BIOSYNTHESIS
11	2e-12	40 / 325	GSE/ REACTOME_METABOLISM_OF_PROTEINS
12	4e-12	178 / 3270	CC integral component of membrane
13	4e-11	23 / 125	BP protein glycosylation
14	4e-11	14 / 41	GSE/ MORI_PLASMA_CELL_UP
15	3e-10	46 / 479	CC Golgi membrane
16	3e-10	16 / 64	GSE/ SHAFFER_IRF4_TARGETS_IN_PLASMA_CELL_VS_MATURE_B_LYMPH
17	9e-10	16 / 68	GSE/ REACTOME_UNFOLDED_PROTEIN_RESPONSE
18	9e-10	27 / 198	GSE/ TIEN_INTESTINE_PROBIOTICS_24HR_DN
19	2e-09	16 / 71	BP response to endoplasmic reticulum stress
20	3e-09	14 / 54	BP IRE1-mediated unfolded protein response
21	3e-09	75 / 1083	Color LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_tra
22	4e-09	29 / 241	CC endoplasmic reticulum lumen
23	5e-09	11 / 32	BP protein N-linked glycosylation
24	6e-09	19 / 110	GSE/ REACTOME_DIABETES_PATHWAYS
25	7e-09	11 / 33	BP protein N-linked glycosylation via asparagine
26	8e-09	30 / 262	GSE/ HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN
27	3e-08	17 / 96	GSE/ SHAFFER_IRF4_TARGETS_IN_MYELOMA_VS_MATURE_B_LYMPHO
28	4e-08	20 / 136	BP ER to Golgi vesicle-mediated transport
29	4e-08	65 / 938	CC Golgi apparatus
30	4e-08	22 / 163	MF transferase activity, transferring glycosyl groups
31	5e-08	29 / 269	GSE/ HELLER_HDAC_TARGETS_DN
32	7e-08	15 / 79	CC integral component of endoplasmic reticulum membrane
33	1e-07	12 / 51	CC endoplasmic reticulum-Golgi intermediate compartment
34	1e-07	17 / 106	HM HALLMARK_UNFOLDED_PROTEIN_RESPONSE
35	1e-07	194 / 4131	TF ICGC_Tcf3_targets
36	1e-07	12 / 52	GSE/ PELLICCIOTTA_HDAC_IN_ANTIGEN_PRESENTATION_UP
37	2e-07	13 / 64	GSE/ SHAFFER_IRF4_TARGETS_IN_ACTIVATED_DENDRITIC_CELL
38	3e-07	11 / 46	GSE/ KLEIN_PRIMARY_EFFUSION_LYMPHOMA_UP
39	3e-07	19 / 140	BP protein folding
40	3e-07	171 / 3564	TF ICGC_Taf1_targets



Aging Rank	p-value	#in/all	Geneset
1	0.6	3/92	HORVATH_aging_genes_meth_DOWN
2	0.7	3/107	HORVATH_aging_genes_meth_UP
3	1.0	0/47	TSCHEINDORFF_age_hypermethylated
4	NA	0/0	
5	NA	0/0	
6	NA	0/0	
7	NA	0/0	
8	NA	0/0	
9	NA	0/0	
10	NA	0/0	
11	NA	0/0	
12	NA	0/0	
13	NA	0/0	
14	NA	0/0	
15	NA	0/0	

BP Rank	p-value	#in/all	Geneset
1	4e-11	23/125	protein glycosylation
2	2e-09	16/71	response to endoplasmic reticulum stress
3	3e-09	14/54	IRE1-mediated unfolded protein response
4	5e-09	11/32	protein N-linked glycosylation
5	7e-09	11/33	protein N-linked glycosylation via asparagine
6	4e-08	20/136	ER to Golgi vesicle-mediated transport
7	3e-07	19/140	protein folding
8	6e-07	22/190	vesicle-mediated transport
9	1e-05	5/10	cargo loading into COPII-coated vesicle
10	1e-05	10/53	COPII vesicle coating
11	3e-05	36/502	protein transport
12	5/12	35/12	retrograde protein transport, ER to cytosol
13	3e-05	11/72	retrograde vesicle-mediated transport, Golgi to ER
14	5e-05	9/50	response to unfolded protein
15	6e-05	9/52	ubiquitin-dependent ERAD pathway

Cancer Rank	p-value	#in/all	Geneset
1	0.001	0/11	LIU_PROSTATATE_CANCER_UP
2	0.003	1/15	RHODES_CANCER_META_SIGNATURE
3	0.005	14/186	SPANG_LPS-index2
4	0.082	2/14	GENTLES_modul13
5	0.082	16/317	SPANG_BCL6-index2
6	0.126	3/36	ZHANG_MM_up
7	0.139	4/58	SHAUWNESSY_MM_high_risk
8	0.142	5/80	PanCan_JAK-ST_geneset_nanostring
9	0.180	7/134	PanCan_RAS_geneset_nanostring
10	0.271	1/9	WANG_ER_DN
11	0.292	6/130	PanCan_CC+Apop_geneset_nanostring
12	0.303	2/32	KUIPER_MM_goa_survival
13	0.317	8/187	PanCan_P13K_geneset_nanostring
14	0.320	1/11	GENTLES_modul14
15	0.344	1/12	GENTLES_modul12

CC Rank	p-value	#in/all	Geneset
1	3e-36	123/1035	endoplasmic reticulum
2	5e-28	88/683	endoplasmic reticulum membrane
3	2e-23	260/5339	membrane
4	4e-12	178/3270	integral component of membrane
5	3e-10	46/479	Golgi membrane
6	4e-09	29/241	endoplasmic reticulum lumen
7	4e-08	65/938	Golgi apparatus
7a	8e-08	15/79	integral component of endoplasmic reticulum membrane
9	1e-07	12/81	endoplasmic reticulum-Golgi intermediate compartment
10	2e-05	12/82	transport vesicle
11	3e-05	5/12	trans-Golgi network transport vesicle
12	5e-05	5/13	COPII vesicle coat
13	6e-05	6/22	smooth endoplasmic reticulum
14	2e-04	9/58	Golgi cisterna membrane
15	2e-04	7/35	cis-Golgi network

Chr Rank	p-value	#in/all	Geneset
1	3e-05	45/689	Chr 3
2	6e-02	31/669	Chr 6
3	7e-02	26/556	Chr 7
4	2e-01	17/403	Chr 14
5	3e-01	49/1325	Chr 1
6	3e-01	19/492	Chr 9
7	3e-01	21/548	Chr 16
8	4e-01	29/756	Chr 11
9	4e-01	2/41	Chr 7
10	5e-01	21/585	Chr 7
11	5e-01	12/333	Chr 22
12	6e-01	6/184	Chr 18
13	6e-01	12/369	Chr 20
14	4e-01	4/139	Chr 21
15	7e-01	17/554	Chr 5

Chromatin states Rank	p-value	#in/all	Geneset
1	2e-09	371/9179	T_2ssA_Skeletal_Muscle
2	5e-09	312/7331	TssA_Colon
3	2e-08	338/8200	monocytes peripheral blood_2_TssAFlnk
4	2e-08	371/9275	3_TssF_MSC_Adipocyte
5	3e-08	319/7635	monocytes peripheral blood_1_TssA
6	3e-08	344/8430	3_TssF_Melanocytes
7	1e-07	364/9146	3_TssF_Skeletal_Muscle
8	1e-07	309/7429	Tcells peripheral blood_1_TssA
9	1e-07	352/8760	2_TssA_Melanocytes
10	1e-07	364/9160	2_TssA_Neural_Progenitor
11	3e-07	325/7957	Tcells peripheral blood_2_TssAFlnk
12	5e-07	339/8431	T CD8+ naive cells peripheral blood_2_TssAFlnk
13	7e-07	319/8576	2_TssA_MSC_Adipocyte
14	8e-07	319/8576	Bcells peripheral blood_1_TssA
15	8e-07	299/7225	Overlap_fetal_midbrain_ReprPC

Colon Cancer Rank	p-value	#in/all	Geneset
1	3e-09	75/1083	LaPointe_mucosa-position_kmeans_J_cecum_colon_ascending_colon_transv
2	3e-05	18/172	Pentrack_CRC_TCGA_corr_U_msi-h_UP
3	6e-04	61/1166	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon_a
4	4e-03	65/3564	LaPointe_mucosa-position_kmeans_N_colon_colon_ascending_colon_UP_a
5	5e-03	45/383	LaPointe_mucosa-position_kmeans_L_transverse_colon_ascending_colon_UP
6	4e-02	2/10	KIM_CRC-MSI-regulated_DN
7	8e-02	70/1729	LaPointe_mucosa-position_kmeans_G_cecum_colon_ascending_colon_UP_t
8	9e-02	15/297	Pentrack_CRC_TCGA_group_over_B_msi-h_UP
9	9e-02	2/15	TCGA-CRC_less-aggressive-disease-markers
10	2e-01	1/6	Hestia_dMMR_mutator-v-mutations_Signal_transduction
11	2e-01	1/6	Boland_CRC-MSI-TGC
12	2e-01	3/49	Pentrack_CRC_TCGA_corr_N_msi-h_DN
13	2e-01	1/8	Marisa_CRC-C1
14	3e-01	1/9	Marisa_CRC-C2
15	3e-01	3/60	Marisa_CRC-cluster-g

Glioma Rank	p-value	#in/all	Geneset
1	0.001	23/330	Up
2	0.007	2/4	WILLSCHER_GBM_Verhaak-CL_up (E)
3	0.040	15/264	Hopp_Sturm_GBM_Epi3_no_zentr_3_RTK_II_UP_adult_fetus_K27_DN
4	0.053	2/11	WILLSCHER_GBM_LTSwt_proteomics-C_UP
5	0.072	2/193	Christensen5_hypermethylated_in_grade2_oligodendrogloma
6	0.078	4/47	GIEZELI_GBM_STSwt_up_VLTSwt
7	0.089	5/69	Hopp_Sturm_GBM_Epi3_D1_IDH_UP_adult_fetus_DN
8	0.111	9/163	Scov_0_999_Sturm_E1_IDH_DN
9	0.121	4/55	WILLSCHER_GBM_proteomics_wtOnly_SpotJ
10	0.204	52/1343	Hopp_Sturm_GBM_Epis_no_zentr_6_fetus_UP
11	0.245	1/8	WILLSCHER_GBM_LTSmut_proteomics-A_UP
12	0.271	1/9	Donson-migration tethering and rolling-associated with LTS in HGA
13	0.271	1/9	Colman_survival_robust
14	0.290	2/31	WILLSCHER_GBM_proteomics_wtOnly_SpotC
15	0.303	2/32	WIRTH_PN_subtype

GSEA C2 Rank	p-value	#in/all	Geneset
1	9e-29	33/75	TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_UP
2	2e-19	41/216	PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP
3	3e-19	25/71	REACTOME_ASPARAGINE_N_LINKED_GLYCOSYLATION
4	2e-17	61/518	MMR_PSEUDOPEDIA_HAPTOTAXIS_DN
5	3e-17	31/137	REACTOME_POST_TRANSLATIONAL_PROTEIN_MODIFICATION
6	4e-13	15/37	KEGG_N_GLYCAN_BIOSYNTHESIS
7	2e-12	40/325	REACTOME_METABOLISM_OF_PROTEINS
8	4e-11	14/41	MORI_PLASMA_CELL_UP
9	3e-10	16/64	SHAFER_IR4_TARGETS_IN_PLASMA_CELL_VS_MATURE_B_LYMPHO
10	1e-09	16/68	REACTOME_UNFOLDED_PROTEIN_RESPONSE
11	9e-10	27/198	TIEN_INTESTINE_PROBIOTICS_24HR_DN
12	6e-09	19/110	REACTOME_DIABETES_PATHWAYS
13	8e-09	30/262	HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN
14	3e-08	17/96	SHAFER_IR4_TARGETS_IN_MYELOMA_VS_MATURE_B_LYMPHOCYT
15	5e-08	29/269	HELLER_HDAC_TARGETS_DN

LM Rank	p-value	#in/all	Geneset
1	1e-07	17/1106	HALLMARK_UNFOLDED_PROTEIN_RESPONSE
2	5e-03	9/94	HALLMARK_PROTEIN_SECRETION
3	9e-03	11/139	HALLMARK_FATTY_ACID_METABOLISM
4	1e-02	13/182	HALLMARK_GLYCOLYSIS
5	2e-02	13/192	HALLMARK_MTORC1_SIGNALING
6	2e-02	8/181	HALLMARK_XENOBIOTIC_METABOLISM
7	9e-02	8/133	HALLMARK_DNA_REPAIR
8	1e-01	3/38	HALLMARK_WNT_BETA_CATENIN_SIGNALING
9	1e-01	8/149	HALLMARK_UV_RESPONSE_UP
10	2e-01	3/44	HALLMARK_REACTIVE_OXYGEN_SPECIES_PATHWAY
11	2e-01	9/193	HALLMARK_ESTROGEN_RESPONSE_LATE
12	2e-01	5/97	HALLMARK_P13K_AKT_MTOR_SIGNALING
13	2e-01	5/97	HALLMARK_PEROXISOME
14	2e-01	6/122	HALLMARK_SPERMATOGENESIS
15	3e-01	2/29	HALLMARK_NOTCH_SIGNALING

Immunome Rank	p-value	#in/all	Geneset
1	5e-05	5/13	Angelova_CRC_MSSA-neoantigens
2	1e-03	3/7	Angelova_CRC_MSI-neoantigens
3	7e-03	2/4	Angelova_CRC_MSSA-neoantigens
4	4e-02	3/23	Angelova Immune-metagenes-Th2
5	1e-01	2/16	Angelova Immune-metagenes-Th17
6	1/11	1/11	Angelova Immune-metagenes-macrophages
7	3e-01	7/12	Angelova Immune-metagenes-effector_memory_CD4
8	3e-01	1/12	Angelova Immune-metagenes-NK56_dim
9	4e-01	1/15	Angelova Immune-metagenes-NK
10	5e-01	2/45	Angelova Immune-metagenes-MDSC
11	5e-01	1/18	Angelova Immune-metagenes-pDC
12	5e-01	1/18	Angelova_CRC Immunostimulators
13	5e-01	1/19	Angelova Immune-metagenes-IDC
14	5e-01	1/21	Angelova Immune-metagenes-central_memory_CD4
15	8e-01	1/42	Angelova Immune-metagenes-TGD

Lifestyle Rank	p-value	#in/all	Geneset
1	0.2	1/6	DUMEAUX_Estrogen related in smokers literature genes up
2	0.4	8/210	Homuth_BMI-associated-genes_DN
3	0.6	2/62	DUMEAUX_Smoking enriched genes
4	1.0	1/150	Homuth_BMI-associated-genes_UP
5	1.0	0/10	DUMEAUX_Smoking literature genes up
6	1.0	0/10	DUMEAUX_Exerciseing non smoker literature enriched genes
7	1.0	0/7	DUMEAUX_Estrogen related in non smokers literature genes up
8	1.0	0/7	DUMEAUX_Hormon therapy in non smokers literature genes up
9	1.0	0/9	DUMEAUX_Monocytes in smokers literature genes up
10	1.0	0/16	DUMEAUX_Red blood cells in non smokers literature genes up
11	1.0	0/16	DUMEAUX_Women normal BMI literature genes up
12	1.0	0/22	DUMEAUX_High bmi enriched genes
13	1.0	0/22	DUMEAUX_Fasting enriched genes
14	1.0	0/14	Huan_blood-pressure_SBP-signature
15	1.0	0/13	Huan_blood-pressure_DBP-signature

Lymphoma Rank	p-value	#in/all	Geneset
1	5e-31	35/77	TARTE_Plasma cell signature
2	2e-06	252/5908	HOPP_Active_promoter
3	5e-05	186/4281	HOPP_Txn_transition
4	1e-04	235/5682	HOPP_Weak_promoter
5	2e-04	228/5529	HOPP_Txn_elongation
6	9e-04	189/4559	HOPP_Weak_enhancer
7	1e-03	49/906	SPANG_BCR_DN
8	3e-03	215/5404	HOPP_Strong_enhancer
9	3e-03	215/5404	HOPP_Strong_enhancer
10	7e-03	3/12	Subero_MM_hypo_meth
11	7e-03	175/4357	HOPP_Weak_txn
12	2e-02	5/45	SPANG_BUFF_9hrs_DN
13	3e-02	7/85	Aukema_BCL2_DN_BCL6_UP
14	1e-01	4/57	SPANG_LPS_6hrs_DN
15	2e-01	5/87	Hopp_Lymphoma_Epi1_with_zentr_v_B_cell_DN

Melanoma Rank	p-value	#in/all	Geneset
1	0.005	15/204	Landsberg_dedifferentiation_down
2	0.005	14/185	Tirosh_genes from malignant cells in Mel179-melanoma
3	0.024	7/83	TCGA_melanoma Immune_high
4	0.053	8/119	TCGA_melanoma_MITF_low
5	0.063	11/189	Tirosh_genes preferentially expressed by Tregs
6	0.065	13/236	Gerber_wt/wt_group3-specific
7	0.083	12/222	Gerber_wt/wt_melanoma-cells-SpotF
8	0.159	3/39	Tirosh_correlated_genes_PC5
9	0.211	3/46	Tirosh_top50 correlated genes PC5
10	0.257	3/51	Tirosh_genes from CD8+ T-cells in Mel179-melanoma
11	0.296	1/10	Joensson_Melanoma Normal like subtype
12	0.305	4/81	Tirosh_Genes in the MITF program
13	0.315	19/497	Gerber_wt/wt_melanoma-cells-SpotD
14	0.389	3/65	Harbst_melanoma_highgrade_up
15	0.415	2/41	Tirosh_top50 correlated genes PC3

MF Rank	p-value	#in/all	Geneset
1	4e-08	22/163	transferase activity, transferring glycosyl groups
2	5e-07	7/16	protein disulfide isomerase activity
3	8e-07	15/95	isomerase activity
4	6e-04	4/12	misfolded protein binding
5	2e-03	9/80	chaperone binding
6	6e-03	7/64	hydrolase activity, acting on glycosyl bonds
7	7e-03	3/12	calcium-transporting ATPase activity
8	9e-03	3/13	fatty-acyl-CoA binding
9	1e-02	3/14	FK506 binding
10	2e-02	14/217	lipid binding
11	2e-02	5/45	syntaxin binding
12	2e-02	4/30	oxygen binding
13	2e-02	3/17	low-density lipoprotein particle receptor binding
14	2e-02	4/32	peptidyl-prolyl cis-trans isomerase activity
15	3e-02	54/1201	hydrolase activity

mikRNA target Rank	p-value	#in/all	Geneset
1	0.002	24/369	hsa-miR-15b
2	0.006	15/208	hsa-miR-30b
3	0.010	13/181	hsa-miR-520g
3	0.016	15/235	hsa-miR-30c
4	0.017	14/215	hsa-miR-30c
6	0.017	19/324	hsa-miR-497
7	0.018	7/78	hsa-miR-216b
8	0.019	4/30	hsa-miR-1258
9	0.020	20/380	hsa-miR-424
10	0.019	13/197	hsa-miR-30a
11	0.024	7/83	hsa-miR-147
12	0.026	4/33	hsa-miR-182*
13	0.027	20/363	hsa-miR-195
14	0.028	11/165	hsa-miR-448
15	0.029	2/8	hsa-miR-886-3p

Pneumonia Rank	p-value	#in/all	Geneset
1	0.06	8/122	Terre_IMS_influenza_meta_signature
2	0.28	8/179	Terre_MSV_multiple_respiratory_viruses_dn
3	0.31	3/57	Burnham_day1_vs_5_UP
4	0.48	3/68	Burnham_sep_vs_con_UP
5	0.44	3/71	Burnham_cap_tp_vs_con_UP
6	0.50	2/48	Burnham_viral_DN
7	0.50	5/135	Terre_MSV_multiple_respiratory_viruses_up
8	0.54	2/52	Burnham_day1_vs_5_DN
9	0.56	2/54	Burnham_virusouse
10	0.69	1/33	Sweeney_viral_dn
11	0.73	1/37	Sweeney_viral_up
12	0.87	1/57	Burnham_viral_UP
13	1.00	0/56	Burnham_sep_vs_con_DN
14	1.00	0/48	Burnham_cap_tp_vs_con_DN
15	1.00	0/18	Scicluna_UP

Reference Signatures Rank	p-value	#in/all	Geneset

K-Means Cluster

Spot Summary: V

metagenes = 44
genes = 435

<r> metagenes = 0.95
<r> genes = 0.28
beta: r2= 7.33 / log p= -Inf

samples with spot = 41 (18.6 %)
intermediate : 1 (2.1 %)
non-mBL : 40 (31 %)

Spot Genelist

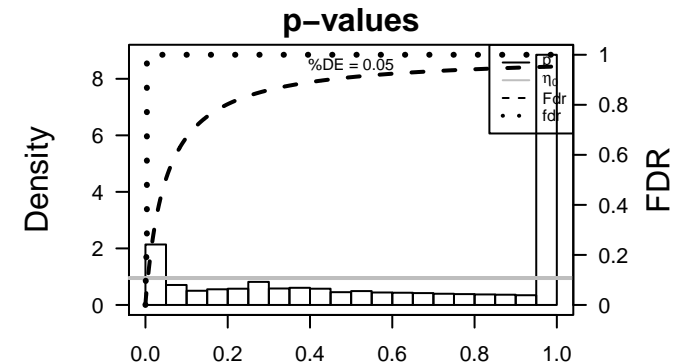
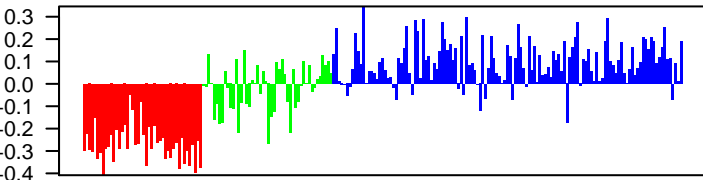
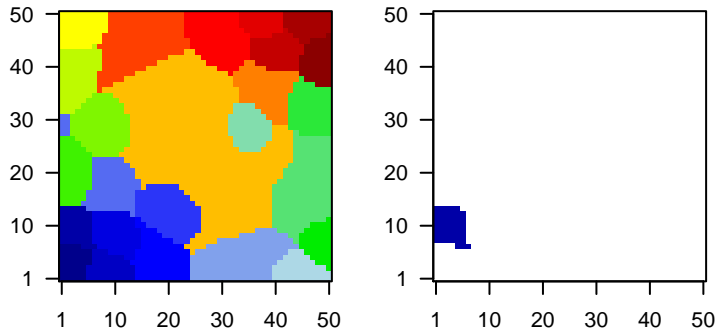
Rank	ID	max e	r	min e	Description
1	209728_at	2.5	-1.71	0.29	HLA-DRB1 major histocompatibility complex, class II, DR beta 4 [Source:HGNC Symbol;Acc:HGNC:6594]
2	206140_at	2.21	-0.79	0.29	LHX2 LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:6594]
3	205485_at	2.16	-1.09	0.4	RYR1 ryanodine receptor 1 [Source:HGNC Symbol;Acc:HGNC:10467]
4	206181_at	1.94	-1.03	0.49	SLAMF1 signaling lymphocytic activation molecule family member 1 [Source:HGNC Symbol;Acc:HGNC:10467]
5	219895_at	1.94	-1.26	0.54	TMEM255 transmembrane protein 255A [Source:HGNC Symbol;Acc:HGNC:10467]
6	210517_s_at	1.9	-1.34	0.28	AKAP12 A-kinase anchoring protein 12 [Source:HGNC Symbol;Acc:HGNC:10467]
7	203485_at	1.86	-1.02	0.58	RTN1 reticulon 1 [Source:HGNC Symbol;Acc:HGNC:10467]
8	211685_s_at	1.86	-1.28	0.45	NCALD neurocalcin delta [Source:HGNC Symbol;Acc:HGNC:7655]
9	219677_at	1.82	-0.78	0.28	SPSB1 splA/ryanodine receptor domain and SOCS box containing 1 [Source:HGNC Symbol;Acc:HGNC:10467]
10	205613_at	1.78	-1.32	0.27	SYT17 synaptotagmin 17 [Source:HGNC Symbol;Acc:HGNC:24119]
11	205898_at	1.71	-1.04	0.49	CX3CR1 C-X3-C motif chemokine receptor 1 [Source:HGNC Symbol;Acc:HGNC:24119]
12	206632_s_at	1.69	-1.24	0.41	APOBEC1 apolipoprotein B mRNA editing enzyme catalytic subunit 3A [Source:HGNC Symbol;Acc:HGNC:24119]
13	213817_at	1.69	-0.93	0.51	IRAK3 interleukin 1 receptor associated kinase 3 [Source:HGNC Symbol;Acc:HGNC:24119]
14	211194_s_at	1.66	-1.3	0.43	TP63 tumor protein p63 [Source:HGNC Symbol;Acc:HGNC:15979]
15	205997_at	1.63	-1.62	0.63	ADAM28 ADAM metallopeptidase domain 28 [Source:HGNC Symbol;Acc:HGNC:15979]
16	220066_at	1.59	-1.28	0.6	NOD2 nucleotide binding oligomerization domain containing 2 [Source:HGNC Symbol;Acc:HGNC:15979]
17	209967_s_at	1.58	-1.09	0.4	CREM cAMP responsive element modulator [Source:HGNC Symbol;Acc:HGNC:15979]
18	205174_s_at	1.55	-1.18	0.27	QPCT glutaminyl-peptide cyclotransferase [Source:HGNC Symbol;Acc:HGNC:15979]
19	203216_s_at	1.54	-0.93	0.41	MYO6 myosin VI [Source:HGNC Symbol;Acc:HGNC:7605]
20	219352_at	1.53	-0.89	0.49	HERC6 HECT and RLD domain containing E3 ubiquitin protein ligase 6 [Source:HGNC Symbol;Acc:HGNC:7605]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-47	72 / 317	Cancer SPANG_BCL6-index2
2	2e-23	236 / 5404	Lymph HOPE_Strong_enhancer
3	4e-23	21 / 40	BP antigen processing and presentation
4	1e-21	15 / 18	CC MHC class II protein complex
5	1e-20	16 / 23	CC integral component of luminal side of endoplasmic reticulum membrane
6	4e-20	35 / 186	Cancer SPANG_LPS-index2
7	4e-20	23 / 66	BP interferon-gamma-mediated signaling pathway
8	5e-20	14 / 17	BP antigen processing and presentation of peptide or polysaccharide antigen via MHC class II
9	2e-19	51 / 431	BP immune system process
10	1e-18	45 / 353	GSE/ JOHNSTONE_PARVB_TARGETS_3_UP
11	3e-18	238 / 5908	Lymph HOPP_Active_promoter
12	6e-18	73 / 906	Lymph SPANG_BCR_DN
13	2e-17	39 / 281	CC lysosome
14	2e-17	14 / 22	MF peptide antigen binding
15	3e-16	42 / 353	Lymph SPANG_CD40_6hrs_DN
16	3e-16	19 / 58	CC phagocytic vesicle membrane
17	2e-15	52 / 560	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
18	2e-14	16 / 46	GSE/ MORI_IMMATURE_B_LYMPHOCYTE_UP
19	7e-14	29 / 198	Refer Chaussabel_3_3_Inflammation_II
20	1e-13	20 / 88	GSE/ WIELAND_UP_BY_HBV_INFECTION
21	1e-13	16 / 51	GSE/ MORI_LARGE_PRE_BII_LYMPHOCYTE_DN
22	2e-13	20 / 90	GSE/ BASSO_CD40_SIGNALING_UP
23	2e-13	38 / 354	GSE/ RODWELL_AGING_KIDNEY_UP
24	8e-13	26 / 173	Lymph Victora_Light_zone_signature
25	1e-12	36 / 336	BP immune response
26	3e-12	15 / 51	CC ER to Golgi transport vesicle membrane
27	4e-12	62 / 902	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
28	5e-12	36 / 355	Refer WIRTH_Immune_system
29	1e-11	38 / 403	BP neutrophil degranulation
30	1e-11	214 / 5682	Lymph HOPP_Weak_promoter
31	1e-11	37 / 386	GSE/ RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP
32	5e-11	16 / 72	GSE/ MORI_MATURE_B_LYMPHOCYTE_UP
33	5e-11	37 / 404	GSE/ RUTELLA_RESPONSE_TO_HGF_UP
34	5e-11	27 / 224	GSE/ HOSHIDA_LIVER_CANCER_SUBCLASS_S1
35	6e-11	24 / 178	GSE/ ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF_UP
36	1e-10	8 / 12	MF MHC class II receptor activity
37	1e-10	50 / 694	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP
38	2e-10	26 / 219	CC lysosomal membrane
39	2e-10	35 / 386	GSE/ MULLIGHAN_MLL_SIGNATURE_2_UP
40	4e-10	6 / 6	Lymph DAVE_MHCCI2_BL_DN

Overview Map

Spot



Rank	Aging	p-value	#in/all	Geneset
1	0.7	1 / 47	1	TCSCANDORFF_age_hypermethylated
2	0.8	2 / 107	2	HORVATH_aging_genes_meth_UP
3	0.9	1 / 92	3	HORVATH_aging_genes_meth_DOWN
4	NA	0 / 0		
5	NA	0 / 0		
6	NA	0 / 0		
7	NA	0 / 0		
8	NA	0 / 0		
9	NA	0 / 0		
10	NA	0 / 0		
11	NA	0 / 0		
12	NA	0 / 0		
13	NA	0 / 0		
14	NA	0 / 0		
15	NA	0 / 0		

Rank	CC	p-value	#in/all	Geneset
1	1e-21	15 / 18	1	MHC class II protein complex
2	1e-20	16 / 23	2	integral component of luminal side of endoplasmic reticulum membrane
3	2e-17	39 / 281	3	lysosome
4	3e-16	19 / 58	4	phagocytic vesicle membrane
5	3e-12	15 / 51	5	ER to Golgi transport vesicle membrane
6	2e-10	26 / 219	6	lysosomal membrane
7	7e-10	16 / 85	7	lysosomal lumen
8	1e-09	35 / 188	8	endosome membrane
9	1e-08	10 / 28	9	clathrin-coated endocytic vesicle membrane
10	5e-08	36 / 494	10	endosome
11	3e-07	9 / 36	11	transport vesicle membrane
12	9e-07	51 / 938	12	Golgi apparatus
13	1e-06	95 / 2239	13	extracellular exosome
14	1e-06	25 / 13210	14	plasma membrane
15	7e-06	10 / 64	15	trans-Golgi network membrane

Rank	Colon Cancer	p-value	#in/all	Geneset
1	1e-09	42 / 589	1	Lembcke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
2	1e-07	59 / 1083	2	LaPointe_mucosa-position_kmeans_J_cekum_colon_ascending_colon_transv
3	2e-07	25 / 288	3	Pentrack_CRC_TCGA_corr_J_msi-h_UP_rmsc_DN
4	1e-05	56 / 1166	4	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cekum_colon_a
5	2e-05	22 / 297	5	LaPointe_CRC_TCGA_group_over_B_msi-h_UP
6	9e-05	43 / 883	6	LaPointe_mucosa-position_kmeans_L_transverse_colon_cekum_colon_DN
7	1e-04	71 / 1729	7	LaPointe_mucosa-position_kmeans_G_cekum_colon_ascending_colon_UP_t
8	2e-02	2 / 8	8	LaPointe_mucosa-position_kmeans_N_cekum_colon_ascending_colon_UP_a
9	2e-02	23 / 539	9	Marisa_CRC_C3
10	2e-02	6 / 83	10	Marisa_CRC_meth_kmeans_L_CIMP_H_UP
11	2e-02	20 / 483	11	Lembcke_TCGA-expr_kmeans_H_CIMP_H_UP_Cluster3_DN
12	5e-02	3 / 31	12	Marisa_CRC_cluster-c
13	7e-02	16 / 397	13	Pentrack_CRC_TCGA_corr_C_normal_UP
14	8e-02	4 / 60	14	Marisa_CRC_cluster-g

Rank	BM	p-value	#in/all	Geneset
1	6e-10	22 / 166	1	HALLMARK_INTERFERON_GAMMA_RESPONSE
2	5e-08	20 / 176	2	HALLMARK_ALLOGRAFT_REJECTION
3	1e-07	13 / 76	3	HALLMARK_INTERFERON_ALPHA_RESPONSE
4	5e-05	16 / 190	4	HALLMARK_TNFA_SIGNALING_VIA_NFKB
5	2e-03	13 / 188	5	HALLMARK_HYPOXIA
6	2e-03	13 / 191	6	HALLMARK_P53_PATHWAY
7	7e-03	11 / 174	7	HALLMARK_APCAD_JUNCTION
8	8e-03	11 / 178	8	HALLMARK_COMPLEMENT
9	1e-02	11 / 187	9	HALLMARK_INFAMMATORY_RESPONSE
10	1e-02	7 / 94	10	HALLMARK_PROTEIN_SECRETION
11	2e-02	3 / 59	11	HALLMARK_APOPTOSIS
12	2e-02	3 / 59	12	HALLMARK_CHOLESTEROL_HOMEOSTASIS
13	7e-02	3 / 35	13	HALLMARK_HEDGEHOG_SIGNALING
14	7e-02	9 / 193	14	HALLMARK_HEME_METABOLISM
15	8e-02	9 / 194	15	HALLMARK_KRAS_SIGNALING_UP

Rank	Lymphoma	p-value	#in/all	Geneset
1	2e-23	236 / 5404	1	HOPP_Strong_enhancer
2	3e-18	238 / 5908	2	HOPP_Active_promoter
3	6e-8	73 / 906	3	SPANG_BCR_DN
4	3e-16	42 / 353	4	SPANG_CD40_hrs_DN
5	8e-13	26 / 173	5	Victoria_Light_zone_signature
6	1e-11	214 / 5682	6	HOPP_Weak_promoter
7	4e-10	6 / 6	7	DAVE_MHCII_BL_DN
8	2e-09	167 / 4261	8	HOPP_Txn_transition
9	6e-09	15 / 85	9	SHA_DLBCL_UP
10	1e-08	23 / 213	10	SPANG_IL21_DN
11	1e-07	196 / 5529	11	HOPP_Txn_elongation
12	7e-05	13 / 135	12	DAVE_BL-vs-DLBCL
13	2e-04	4 / 12	13	BENTINK_MBL_DOWN
14	2e-04	8 / 62	14	Monti_Host_response_cluster
15	2e-04	5 / 22	15	DAVE_NFKB_BL_DN

Rank	miRNA target	p-value	#in/all	Geneset
1	0.005	11 / 164	1	hsa-miR-148b
2	0.006	11 / 169	2	hsa-miR-148a
3	0.007	4 / 29	3	hsa-miR-647
4	0.010	8 / 112	4	hsa-miR-218
5	0.014	6 / 74	5	hsa-miR-595
6	0.017	8 / 122	6	hsa-miR-506
7	0.017	11 / 197	7	hsa-miR-152
8	0.032	4 / 45	8	hsa-miR-513a-5p
9	0.039	16 / 369	9	hsa-miR-130b
10	0.049	10 / 205	10	hsa-miR-1252
11	0.050	4 / 52	11	hsa-miR-1246
12	0.052	6 / 100	12	hsa-miR-625
13	0.055	8 / 154	13	hsa-miR-452
14	0.056	18 / 448	14	hsa-miR-20b
15	0.057	3 / 33	15	hsa-miR-483-5p

Rank	Telomeres	p-value	#in/all	Geneset
1	0.5	1 / 27	1	Nabetani_all_ten_telomeres_genes_ks
2	1.0	0 / 13	2	Alternative lengthening of telomeres
3	NA	0 / 0		
4	NA	0 / 0		
5	NA	0 / 0		
6	NA	0 / 0		
7	NA	0 / 0		
8	NA	0 / 0		
9	NA	0 / 0		
10	NA	0 / 0		
11	NA	0 / 0		
12	NA	0 / 0		
13	NA	0 / 0		
14	NA	0 / 0		
15	NA	0 / 0		

BP Rank	p-value	#in/all	Geneset
1	4e-23	21 / 40	antigen processing and presentation
2	4e-20	23 / 68	interferon-gamma-mediated signaling pathway
3	5e-20	14 / 17	antigen processing and presentation of peptide or polysaccharide antigen via
4	2e-19	51 / 431	immune system process
5	1e-12	36 / 336	immune response
6	1e-11	38 / 403	neutrophil degranulation
7	0 / 0	15 / 87	antigen processing and presentation of exogenous peptide antigen via MHC c
8	1e-08	9 / 26	antigen processing and presentation of peptide antigen via MHC class I
9	2e-07	12 / 69	antigen processing and presentation of exogenous peptide antigen via MHC c
10	3e-06	15 / 135	T cell receptor signaling pathway
11	4e-06	10 / 60	T cell costimulation
12	0 / 0	27 / 407	viral process
13	4e-05	9 / 63	type I interferon signaling pathway
14	5e-05	12 / 113	regulation of immune response
15	5e-05	24 / 367	innate immune response

Chr Rank	p-value	#in/all	Geneset
1	0.008	25 / 556	Chr X
2	0.015	33 / 832	Chr 2
3	0.022	27 / 63	Chr 6
4	0.219	24 / 756	Chr 11
5	0.246	22 / 700	Chr 12
6	0.439	14 / 490	Chr 10
7	0.486	36 / 1325	Chr 1
8	0.500	16 / 385	Chr 7
9	0.501	15 / 548	Chr 16
10	0.518	15 / 554	Chr 5
11	0.698	9 / 382	Chr 15
12	0.779	5 / 242	Chr 13
13	0.92	7 / 333	Chr 2
14	0.831	9 / 437	Chr 8
15	0.835	17 / 776	Chr 17

Glioma Rank	p-value	#in/all	Geneset
1	9e-10	37 / 447	Scov_0.999_Sturm_E4_Mesenchymal_RTK_I_'PDGFRA'_DN
2	1e-05	19 / 231	WILLSCHER_GBM_Verhaak-CL & MES_up
3	6e-05	6 / 27	Donson-Misc immune_function-associated with LTS in HGA
4	5e-04	44 / 979	Hopp_Sturm_GBM_Epi3_no_zentr_5_IDH_UP_fetus_adult_DN
5	6e-04	20 / 330	Up
6	9e-04	17 / 268	Scov_0.001_Sturm_M2_Mesenchymal_RTK_I_'PDGFRA'_DN
7	9e-04	17 / 269	Scov_0.5_Sturm_C3_Mesenchymal_DN
8	1e-03	6 / 45	Donson-immune immunity-associated with LTS in HGA
9	2e-03	8 / 83	Scov_0.999_Sturm_E3_RTK_I_'PDGFRA'_DN
10	1e-01	10 / 144	Christensen_hypermethylated_in_grade2_oligodendroglioma
11	6e-03	14 / 242	Scov_0.5_Sturm_C1_IDH_DN
12	8e-03	4 / 30	Shaw_responders_down_in_oligo_glioma
13	9e-03	8 / 109	Hopp_Sturm_GBM_Epi3_D_adult_fetus_IDH_UP
14	2e-02	7 / 99	GEZELT_GBM_WT_up_VS_mut
15	3e-02	6 / 87	Christensen_hypermethylated_in_secondary_glioblastoma

Immuno Rank	p-value	#in/all	Geneset
1	7e-07	5 / 8	Immunity_HLA-class-II
2	1e-03	4 / 18	Angelova_CRC_immunostimulators
3	1e-03	5 / 32	Angelova_immune-metagenes-effector_memory_CD8
4	2e-03	4 / 21	Angelova_immune-metagenes-central_memory_CD4
5	4e-03	2 / 4	Angelova_CRC_MHC_class_II
6	4e-03	4 / 29	Angelova_immune-metagenes-Th1
7	6e-02	2 / 15	Angelova_immune-metagenes-NK
8	8e-02	1 / 3	Angelova_CRC_MHC_class_I
9	1e-01	3 / 42	Angelova_immune-metagenes-TGD
10	1e-01	3 / 45	Angelova_immune-metagenes-MDSC
11	4e-01	2 / 23	Angelova_immune-metagenes-monocytes
12	1e-01	1 / 5	Angelova_immune-metagenes-NKT
13	2e-01	1 / 6	Immunity_immune-checkpoint-inhibitors
14	2e-01	1 / 7	Angelova_immune-metagenes-cytotoxic_cells
15	2e-01	1 / 8	Angelova_immune-metagenes-MDC

Melanoma Rank	p-value	#in/all	Geneset
1	2e-07	15 / 107	Tirosh_Exhaustion_program_in_Mel75
2	1e-05	15 / 189	Tirosh_genes_preferentially_expressed_by_Tregs
3	1e-03	15 / 230	Gerber_wtwt_melanoma_cells-SpotC
4	2e-03	12 / 171	Landsberg_dedifferentiation_up
5	6e-03	7 / 81	Tirosh_Genes_in_the_MITF_program
6	8e-03	7 / 85	Tirosh_AXL-signature
7	1e-02	5 / 51	Tirosh_genes_from_CD8_T-cells_in_Mel79-melanoma
8	2e-02	11 / 204	Landsberg_dedifferentiation_down
9	2e-02	4 / 41	Tirosh_top50_correlated_genes_PC3
10	3e-02	10 / 185	Tirosh_genes_from_malignant_cells_in_Mel79-melanoma
11	6e-02	3 / 33	Tirosh_T-cell_specific_genes-melanoma
12	1e-01	4 / 71	Tirosh_Macrophage_specific_genes-melanoma
13	1e-01	1 / 5	Hugo_melanoma-3RBL-MET_DN
14	2e-01	17 / 497	Gerber_wtwt_melanoma_cells-SpotD
15	2e-01	4 / 83	TCGA_melanoma_immune_high

Pneumonia Rank	p-value	#in/all	Geneset
1	1e-05	8 / 41	Scicluna_DN
2	2e-05	9 / 56	Burnham_sep_vs_con_DN
3	1e-04	8 / 57	Burnham_viral_UP
4	7 / 48	7 / 48	Burnham_cap_fp_vs_con_DN
5	1e-02	9 / 135	Terre_MSV_multiple_respiratory_viruses_up
6	6e-02	3 / 33	Sweeney_viral_dn
7	8e-02	3 / 37	Sweeney_viral_up
8	1e-01	8 / 179	Terre_MSV_multiple_respiratory_viruses_dn
9	6 / 122	6 / 122	Terre_ILS_influenza_meta_signature
10	3e-01	3 / 71	Burnham_cap_fp_vs_con_UP
11	4e-01	2 / 52	Burnham_day1_vs_5_DN
12	5e-01	2 / 68	Burnham_sep_vs_con_UP
13	7e-01	1 / 48	Burnham_viral_DN
14	8e-01	1 / 54	Burnham_timcourse
15	1e+00	0 / 57	Burnham_day1_vs_5_UP

TE Rank	p-value	#in/all	Geneset
1	1e-06	75 / 1636	ICGC_Bc11_targets
2	5e-05	65 / 1494	ICGC_Cebpbsc150_targets
3	6e-05	65 / 1508	ICGC_Mef2_targets
4	2e-04	77 / 1941	ICGC_Bcl3_targets
5	5e-04	46 / 1041	ICGC_P300_targets
6	5e-04	112 / 3213	ICGC_Pu1_targets
7	1e-03	83 / 2254	ICGC_BatfPcr1_targets
8	1e-03	70 / 1848	ICGC_Pbx3_targets
9	2e-03	78 / 2150	ICGC_Irf4_targets
10	2e-03	126 / 3796	ICGC_Nficsc01335_targets
11	4e-03	99 / 2891	ICGC_ttf1_targets
12	4e-03	42 / 1032	ICGC_Usf1_targets
13	6e-03	138 / 4319	ICGC_Pou2_targets
14	1e-02	111 / 3435	ICGC_Ebfsc137065_targets
15	1e-02	111 / 3451	ICGC_Atf2_targets

Cancer Rank	p-value	#in/all	Geneset
1	5e-47	72 / 317	SPANG_BCL6-index2
2	4e-20	35 / 186	SPANG_LPS-index2
3	3e-07	6 / 12	HLA2_signature
4	9e-05	4 / 10	BENTINK_ras_4
5	7e-04	2 / 2	HLA1_signature
6	1e-03	25 / 480	Lembcke_Colonc_Inflammation
7	3e-03	3 / 12	GENTLES_modul12
8	6e-03	3 / 14	BENTINK_src.10
9	4e-02	2 / 12	LIU_BREAST_CANCER
10	5e-02	2 / 13	GENTLES_modul11
11	5e-02	2 / 13	GENTLES_modul18
12	5 / 02	2 / 16	STRIJOU_BREAST_CANCER_GRADE_1_VS_3_DN
13	7e-02	4 / 58	SHAUGHNESSY_MM_high_risk
14	2e-01	1 / 6	ZHANG_MGUS_up
15	2e-01	6 / 147	PanCan_MAPK_geneset_nanostring

Chromatin states Rank	p-value	#in/all	Geneset
1	4e-20	175 / 3223	monocytes_peripheral_blood_6_EnhG
2	3e-20	179 / 3682	natural_killer_cells_peripheral_blood_6_EnhG
3	2e-18	195 / 3871	Bcells_peripheral_blood_6_EnhG
4	4e-19	295 / 8200	monocytes_peripheral_blood_2_TssAFlnk
5	2e-18	281 / 7635	monocytes_peripheral_blood_1_TssAFlnk
6	5e-17		

K-Means Cluster

Spot Summary: W

metagenes = 98
genes = 501

<r> metagenes = 0.75
<r> genes = 0.11
beta: r2= 1.37 / log p= -Inf

samples with spot = 10 (4.5 %)
mBL : 2 (4.5 %)
intermediate : 1 (2.1 %)
non-mBL : 7 (5.4 %)

Spot Genelist

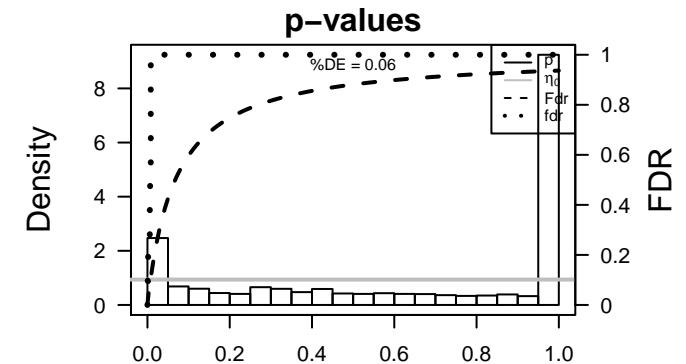
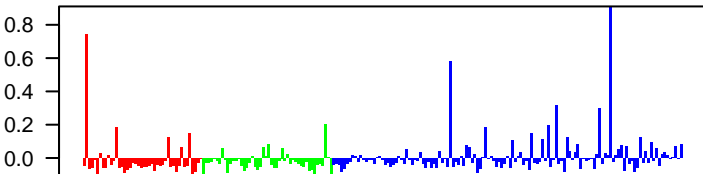
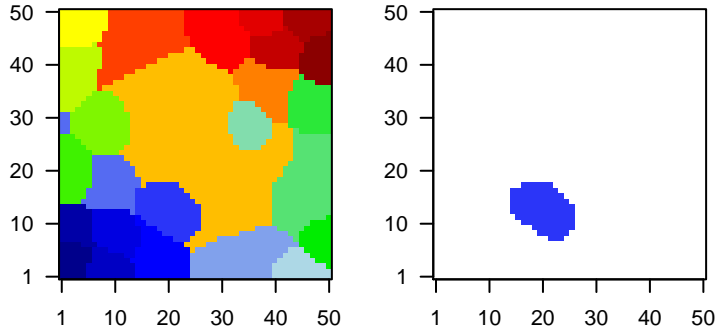
Rank	ID	max e	r	min e	Description
					Symbol
1	209351_at	3.74	-0.88	0.5	KRT14 keratin 14 [Source:HGNC Symbol;Acc:HGNC:6416]
2	218835_at	3.68	-0.52	0.34	SFTPA2 surfactant protein A2 [Source:HGNC Symbol;Acc:HGNC:1071]
3	207935_s_at	3.59	-0.75	0.49	KRT13 keratin 13 [Source:HGNC Symbol;Acc:HGNC:6415]
4	209125_at	3.52	-0.85	0.49	KRT6A keratin 6A [Source:HGNC Symbol;Acc:HGNC:6443]
5	213796_at	3.5	-0.56	0.54	SPRR1A small proline rich protein 1A [Source:HGNC Symbol;Acc:HGNC:6442]
6	214580_x_at	3.41	-0.74	0.49	KRT6A keratin 6A [Source:HGNC Symbol;Acc:HGNC:6443]
7	213240_s_at	3.27	-0.54	0.45	KRT4 keratin 4 [Source:HGNC Symbol;Acc:HGNC:6441]
8	212768_s_at	3.21	-0.59	0.42	OLFM4 olfactomedin 4 [Source:HGNC Symbol;Acc:HGNC:17190]
9	209126_x_at	3.19	-0.85	0.55	KRT6B keratin 6B [Source:HGNC Symbol;Acc:HGNC:6444]
10	218990_s_at	3.14	-0.5	0.47	SPRR3 small proline rich protein 3 [Source:HGNC Symbol;Acc:HGNC:6441]
11	203824_at	3.13	-0.55	0.46	TSPAN8 tetraspanin 8 [Source:HGNC Symbol;Acc:HGNC:11855]
12	210107_at	3.12	-1.18	0.37	CLCA1 chloride channel accessory 1 [Source:HGNC Symbol;Acc:HGNC:6441]
13	205064_at	3.11	-0.84	0.46	SPRR1B small proline rich protein 1B [Source:HGNC Symbol;Acc:HGNC:6442]
14	204268_at	3.09	-0.94	0.55	S100A2 S100 calcium binding protein A2 [Source:HGNC Symbol;Acc:HGNC:6441]
15	211735_x_at	3.02	-0.68	0.25	SFTPC surfactant protein C [Source:HGNC Symbol;Acc:HGNC:1080]
16	206199_at	2.96	-0.74	0.53	CEACAM7 carcinoembryonic antigen related cell adhesion molecule 7 [Source:HGNC Symbol;Acc:HGNC:6441]
17	213680_at	2.96	-0.86	0.47	KRT6B keratin 6B [Source:HGNC Symbol;Acc:HGNC:6444]
18	204272_at	2.94	-0.65	0.44	LGALS4 galectin 4 [Source:HGNC Symbol;Acc:HGNC:6565]
19	208539_x_at	2.91	-0.65	0.48	SPRR2D small proline rich protein 2D [Source:HGNC Symbol;Acc:HGNC:6442]
20	206262_at	2.91	-0.55	0.42	ADH1C alcohol dehydrogenase 1C (class I), gamma polypeptide [Source:HGNC Symbol;Acc:HGNC:6441]

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-92	76 / 105	Refer WIRTH_Mucosa
2	5e-74	91 / 248	GSE/ JAEGER_METASTASIS_DN
3	4e-65	107 / 453	GSE/ ONDER_CDH1_TARGETS_2_DN
4	3e-39	222 / 3168	Lymph HOPP_Repressed
5	1e-33	75 / 452	Colon Lembcke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
6	4e-33	112 / 1029	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_UP
7	1e-32	29 / 46	GSE/ BOSCO_EPITHELIAL_DIFFERENTIATION_MODULE
8	9e-31	34 / 78	BP cornification
9	2e-28	45 / 178	GSE/ WU_CELL_MIGRATION
10	6e-28	31 / 72	BP keratinization
11	1e-27	34 / 93	GSE/ CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP
12	2e-27	95 / 883	Color LaPointe_mucosa-position_kmeans_L_transverse_color_cecum_color_DN
13	4e-27	32 / 82	GSE/ LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
14	9e-26	65 / 448	Color Lembcke_TCGA_meth_kmeans_L_CIMP_H_DN
15	2e-25	46 / 218	GSE/ MCBRYAN_PUBERTAL_BREAST_4_5WK_UP
16	7e-25	62 / 422	GSE/ DELYS_THYROID_CANCER_UP
17	1e-24	128 / 1611	CC extracellular region
18	6e-24	38 / 152	GSE/ COLDREN_GEFITINIB_RESISTANCE_DN
19	2e-22	71 / 608	GSE/ SMID_BREAST_CANCER_BASAL_UP
20	3e-22	65 / 516	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
21	7e-22	39 / 182	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
22	3e-21	54 / 376	Color Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
23	8e-21	4 / 14	Canc LIU_PROSTATE_CANCER_DN
24	8e-21	4 / 14	Canc LIU_PROSTATE_CANCER_DN
25	4e-20	22 / 51	GSE/ HUPER_BREAST_BASAL_VS_LUMINAL_UP
26	1e-19	131 / 1894	Lymph HOPP_Poised_promoter
27	1e-19	120 / 1652	Gliom Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
28	2e-19	96 / 1148	TF HEBENSTREIT_low expression TF
29	7e-19	22 / 57	GSE/ ONDER_CDH1_TARGETS_3_DN
30	3e-18	16 / 26	GSE/ AIGNER_ZEB1_TARGETS
31	5e-18	43 / 282	GSE/ SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN
32	1e-17	141 / 2239	CC extracellular exosome
33	1e-17	61 / 565	GSE/ LEE_BMP2_TARGETS_UP
34	3e-17	71 / 747	GSE/ NABA_MATRISOME
35	4e-17	25 / 92	Color Marisa_CRC-cluster-h
36	5e-17	33 / 174	GSE/ MCBRYAN_PUBERTAL_BREAST_3_4WK_UP
37	6e-17	17 / 35	CC cornified envelope
38	9e-17	27 / 113	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_DN
39	2e-16	39 / 255	Color Kosinski_top-crypt-long-list
40	4e-16	20 / 58	GSE/ RICKMAN_HEAD_AND_NECK_CANCER_E

Overview Map

Spot



Rank	p-value	#in/all	Geneset
1	0.2	5 / 107	HORVATH_aging_genes_meth_UP
2	1.0	3 / 92	HORVATH_aging_genes_meth_DOWN
3	1.0	0 / 47	TSCVATHDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	1e-24	128 / 1611	extracellular region
2	1e-17	141 / 2239	extracellular exosome
3	6e-17	17 / 355	cornified envelope
4	2e-15	85 / 1090	extracellular space
5	1e-10	159 / 3210	plasma membrane
6	7e-10	10 / 23	desmosome
7	1e-09	16 / 76	intermediate filament
8	1e-08	41 / 1128	integral component of plasma membrane
9	4e-08	152 / 3270	integral component of membrane
10	4e-08	45 / 595	cell junction
11	2e-07	8 / 22	anchored component of plasma membrane
12	4e-07	25 / 253	proteinaceous extracellular matrix
13	1e-06	83 / 231	apical plasma membrane
14	1e-06	2 / 27	lateral filament
15	3e-06	10 / 50	keratin plasma membrane

Rank	p-value	#in/all	Geneset
1	1e-33	75 / 452	Lembcke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
2	2e-27	95 / 883	LaPointe_muocosa-position_kmeans_L_transverse_colon_cecum_colon_DN
3	9e-26	65 / 448	Lembcke_TCGA_meth_kmeans_J_CIMP_H_DN
4	3e-21	54 / 376	Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
5	4e-17	25 / 92	Marisa_CRC_cluster-meth
6	2e-16	39 / 255	Kosinski_top_crypt-long-list
7	3e-13	44 / 397	Pentrack_CRC_TCGA_corr_C_normal_UP
8	6e-13	20 / 82	Pentrack_CRC_TCGA_group_over_A_normal_UP
9	7e-12	77 / 1083	LaPointe_muocosa-position_kmeans_J_cecum_colon_ascending_colon_transv
10	8e-08	8 / 20	Kosinski_top_crypt-short-list
11	3e-06	47 / 738	Lembcke_TCGA-expr_kmeans_N_CIMP_H_DN
12	2e-04	7 / 38	Marisa_CRC-cluster-e
13	3e-04	3 / 5	Marisa_CRC-C5
14	6e-04	3 / 6	Marisa_CRC-C6
15	2e-03	10 / 103	Marisa_CRC-cluster-b

Rank	p-value	#in/all	Geneset
1	2e-09	25 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
2	2e-09	25 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
3	1e-08	24 / 194	HALLMARK_KRAS_SIGNALING_UP
4	6e-05	17 / 181	HALLMARK_XENOBIOTIC_METABOLISM
5	5e-04	16 / 195	HALLMARK_KRAS_SIGNALING_DN
6	1e-03	16 / 191	HALLMARK_P53_PATHWAY
7	3e-03	13 / 174	HALLMARK_APICAL_JUNCTION
8	5e-03	11 / 141	HALLMARK_UV_RESPONSE_DN
9	9e-03	13 / 196	HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
10	1e-02	8 / 97	HALLMARK_BILE_ACID_METABOLISM
11	2e-02	4 / 34	HALLMARK_ANGIOGENESIS
12	4e-02	11 / 194	HALLMARK_MYOGENESIS
13	5e-02	8 / 130	HALLMARK_COAGULATION
14	9e-02	9 / 170	HALLMARK_IL2_STATS_SIGNALING
15	1e-01	4 / 59	HALLMARK_CHOLESTEROL_HOMEOSTASIS

Rank	p-value	#in/all	Geneset
1	3e-39	222 / 3168	HOPP_Repressed
2	1e-19	131 / 1894	HOPP_Poised_promoter
3	3e-08	16 / 94	Hopp_Lymphoma_Epi1_with_zentr_iii_B.cell_GCB_UP
4	7e-08	24 / 214	LENZ_Stromal_signature1
5	4e-07	109 / 2206	HOPP_Heterochrom
6	5e-07	14 / 87	Hopp_Lymphoma_Epi1_with_zentr_v_B.cell_DN
7	4e-06	16 / 132	Subero_DLbCL_hyper_meth
8	4e-06	15 / 118	Subero_INT_hyper_meth
9	6e-06	10 / 54	Hopp_Lymphoma_Epi1_no_zentr_1_B.cell_DN
10	1e-05	11 / 70	Hopp_Lymphoma_Epi1_no_zentr_3_B.cell_DN
11	1e-05	15 / 130	Hopp_Lymphoma_Epi1_no_zentr_5_B.cell_GCB_UP
12	6e-05	10 / 70	Subero_FL_hyper_meth
13	3e-02	10 / 71	Hopp_Lymphoma_Epi1_with_zentr_iv_B.cell_MM_UP
14	6e-04	10 / 91	Subero_T-ALL_hyper_meth
15	6e-04	7 / 47	Subero_B-ALL_hyper_meth

Rank	p-value	#in/all	Geneset
1	0.08	2 / 15	hsa-miR-551b
2	0.09	2 / 16	hsa-miR-551a
3	0.09	4 / 54	hsa-miR-299-5p
4	0.10	8 / 150	hsa-miR-139b-3p
5	0.11	2 / 18	hsa-miR-591
6	0.11	8 / 154	hsa-miR-944
7	0.16	3 / 44	hsa-miR-629
8	0.16	2 / 23	hsa-miR-521
9	0.17	3 / 48	hsa-miR-991b
10	0.19	4 / 72	hsa-miR-339-5p
11	0.19	3 / 48	hsa-miR-1243
12	0.20	2 / 26	hsa-miR-558
13	0.20	4 / 74	hsa-miR-595
14	0.21	4 / 25	hsa-miR-770-5p
15	0.21	4 / 75	hsa-miR-587

Rank	p-value	#in/all	Geneset
1	NA	0 / 13	Alternative lengthening of telomeres
2	NA	0 / 27	Nabetani_alt_len_telomeres_genes_ko
3	NA	0 / 0	
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

Rank	p-value	#in/all	Geneset
1	9e-31	34 / 78	cornification
2	6e-31	31 / 72	keratinization
3	3e-13	16 / 46	keratinocyte differentiation
4	5e-10	19 / 104	cell-cell adhesion
5	6e-10	44 / 500	cell adhesion
6	7e-09	10 / 28	peptide cross-linking
7	1e-06	15 / 74	epidermis development
8	5e-08	17 / 109	animal organ morphogenesis
9	1e-07	13 / 66	epithelial cell differentiation
10	4e-07	6 / 11	hemidesmosome assembly
11	9e-07	13 / 78	wound healing
12	1e-06	20 / 183	extracellular matrix organization
13	2e-06	11 / 59	chloride transport
14	8e-06	12 / 81	cell-matrix adhesion
15	9e-06	6 / 17	hair follicle morphogenesis

Chk Rank	p-value	#in/all	Geneset
1	0.01	12 / 184	Chr 18
2	0.03	54 / 1325	Chr 1
3	0.05	22 / 4	Chr 4
4	0.14	20 / 490	Chr 10
5	0.15	7 / 139	Chr 21
6	0.19	31 / 833	Chr 19
7	0.28	24 / 669	Chr 6
8	0.35	9 / 242	Chr 13
9	0.38	13 / 369	Chr 20
10	0.39	28 / 832	Chr 2
11	0.40	15 / 437	Chr 8
12	0.57	24 / 776	Chr 17
13	0.59	15 / 92	Chr 9
14	0.66	16 / 548	Chr 16
15	0.73	11 / 403	Chr 14

Rank	p-value	#in/all	Geneset
1	1e-19	120 / 1652	Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
2	7e-14	46 / 414	Hopp_Sturm_GBM_Epi3_A_adult_fetus_UP_G34_DN
3	6e-10	31 / 273	Hopp_Sturm_GBM_Epi3_B_adult_UP_G34_DN
4	2e-07	20 / 163	SoV_0_999_Sturm_E1_IDH_DN
5	2e-02	9 / 96	Christensen_hypermethylated_in_ependymoma
6	2e-05	9 / 50	Christensen_hypermethylated_in_primary_oligoblastoma
7	7e-05	14 / 132	Christensen_hypermethylated_in_grade2_glioblastocytoma
8	2e-04	12 / 114	Christensen_hypermethylated_in_grade2_oligoastrocytoma
9	4e-04	10 / 86	Sturm_GBM_Meth_overexpression_B_adult_UP
10	6e-04	9 / 42	Sturm_GBM_Meth_overexpression_J_RTKII_classic_UP
11	6e-04	13 / 144	Christensen_hypermethylated_in_grade2_oligodendroglioma
12	8e-04	49 / 979	Hopp_Sturm_GBM_Epi3_no_zentr_5_IDH_UP_fetus_adult_DN
13	3e-03	6 / 45	OL vs. MOG-OL
14	4e-03	8 / 82	laffaire_hypermeth_LGG_vs_control
15	5e-03	7 / 66	Christensen_hypermethylated_in_grade2_astrocytoma

Rank	p-value	#in/all	Geneset
1	0.03	4 / 38	Angelova-immune-metagenes-mast-cells
2	0.03	3 / 23	Angelova-immune-metagenes-Th2
3	0.12	2 / 19	Angelova-immune-metagenes-IDC
4	0.19	2 / 25	Angelova-immune-metagenes-DC
5	0.30	1 / 11	Angelova-immune-metagenes-macrophages
6	0.32	1 / 12	Angelova-immune-metagenes-effector_memory_CD4
7	0.61	1 / 29	Angelova-immune-metagenes-Th1
8	0.88	1 / 67	Angelova-immune-metagenes-T-cells
9	1.00	0 / 13	Angelova-immune-metagenes-activated_B-cells
10	1.00	0 / 26	Angelova-immune-metagenes-activated_CD4
11	1.00	0 / 19	Angelova-immune-metagenes-activated_CD8
12	1.00	0 / 21	Angelova-immune-metagenes-central_memory_CD4
13	1.00	0 / 17	Angelova-immune-metagenes-central_memory_CD8
14	1.00	0 / 7	Angelova-immune-metagenes-cytotoxic_cells
15	1.00	0 / 32	Angelova-immune-metagenes-effector_memory_CD8

Rank	p-value	#in/all	Geneset
1	5e-16	20 / 59	TCGA_melanoma_keratin_high
2	4e-11	8 / 10	Joensuu_Melanoma_Normal_like_subtype
3	8e-05	16 / 64	Harbst_melanoma_lowgrade_up
4	8e-05	6 / 24	Gerami_melanoma-metastatic-risk_DN
5	7e-04	9 / 78	Tirosh_CAF-cell specific genes
6	4e-03	10 / 119	TCGA_melanoma_MITF_low
7	8e-03	12 / 171	Landsberg_dddifferentiation_UP
8	8e-03	26 / 497	Gerber_w/wt_melanoma-cells-SpotD
9	1e-02	3 / 16	Hugo_melanoma-all-LEF1_UP
10	2e-02	2 / 8	Hugo_melanoma-BRAFmut-LEF1_UP
11	3e-02	14 / 249	Gerber_w/wt_melanoma-cells-SpotE
12	3e-02	4 / 38	Hugo_melanoma-BRAFmut-MET_UP
13	4e-02	4 / 39	Tirosh_melanoma-specific_genes
14	9e-02	5 / 75	Tirosh_Endothelial-cell specific genes-melanoma
15	9e-02	1 / 3	Gerami_melanoma-metastatic-risk_UP

Rank	p-value	#in/all	Geneset
1	7e-05	10 / 71	Burnham_cap_fp_vs_con_UP
2	3e-04	9 / 68	Burnham_sep_vs_con_UP
3	3e-02	5 / 57	Burnham_day1_vs_5_UP
4	1e-01	2 / 18	Scicluna_UP
5	4e-01	2 / 48	Burnham_cap_fp_vs_con_DN
6	4e-01	2 / 48	Burnham_viral_DN
7	5e-01	2 / 52	Burnham_day1_vs_5_DN
8	5e-01	2 / 56	Burnham_sep_vs_con_DN
9	9e-01	2 / 185	Terre_MS_V_multiple_respiratory_viruses_up
10	1e+00	1 / 122	Terre_IMS_influenza_meta_signature
11	1e+00	1 / 179	Terre_MSV_multiple_respiratory_viruses_dn
12	1e+00	0 / 57	Burnham_viral_UP
13	1e+00	0 / 54	Burnham_limecourse
14	1e+00	0 / 41	Scicluna_DN
15	1e+00	0 / 37	Sweeney_viral_up

Rank	p-value	#in/all	Geneset
1	2e-19	96 / 1148	HEBENSTREIT_low expression TF
2	9e-01	64 / 2321	ICGC_Rad21_targets
3	1e+00	24 / 1032	ICGC_Usf1_targets
4	1e+00	9 / 522	ICGC_SrpPr2_targets
5	1e+00	89 / 3435	ICGC_Ebfs137065_targets
6	1e+00	38 / 1836	ICGC_Bcl11_targets
7	1e+00	8 / 549	ICGC_Atf3_targets
8	1e+00	50 / 2254	ICGC_BatfPcr1_targets
9	1e+00	105 / 4264	ICGC_Pax5_targets
10	1e+00	17 / 1041	ICGC_P300_targets
11	1e+00	72 / 3213	ICGC_Pu1_targets
12	1e+00	26 / 1508	ICGC_Mef2_targets
13	1e+00	98 / 4212	ICGC_Pol2_targets
14	1e+00	85 / 3778	ICGC_Pol24_targets
15	1e+00	33 / 1848	ICGC_Pbx3_targets

Rank	p-value	#in/all	Geneset
1	8e-21	4 / 14	LIU_PROSTATE_CANCER_DN
2	1e-23	28 / 480	Lembcke_Colonic_Inflammation
3	2e-02	12 / 187	PanCan_P13K_geneset_nanostring
4	3e-02	8 / 113	PanCan_Driver_Geneset_nanostring
5	3e-02	1 / 11	LIU_PROSTATE_CANCER_UP
6	3e-02	2 / 9	WANG_ER_DN
7	3e-02	20 / 409	Lembcke_Normal_vs_Adenoma
8	6e-02	4 / 47	PanCan_TGF-B_geneset_nanostring
9	6e-02	2 / 13	GENTLES_modul17
10	6e-02	8 / 134	PanCan_RAS_geneset_nanostring
11	8e-02	6 / 96	PanCan_TXmIsReg_geneset_nanostring
12	9e-02	2 / 16	GENTLES_modul16
13	3e-01	1 / 13	GENTLES_e2f3.1
14	4e-01	1 / 14	GENTLES_modul10
15	4e-01	1 / 14	GENTLES_modul13

Rank	p-value	#in/all	Geneset
1	2e-42	249 / 3734	Tcells_peripheral_blood_13_ReprPC
2	7e-38	248 / 3918	Tcells_peripheral_blood_14_ReprPCWk
3	3e-36	235 / 3001	Tcells_peripheral_blood_14_ReprPCWk
4	2e-34	182 / 2405	Tcells_peripheral_blood_13_ReprPC
5	3e-33	204 / 2984	natural killer cells_peripheral_blood_14_ReprPCWk
6	1e-32	187 / 2602	natural killer cells_peripheral_blood_12_EnhBiv
7	2e-32	183 / 2515	natural killer cells_peripheral_blood_13_ReprPC
8	2e-31	212 / 3272	monocytes_peripheral_blood_12_ReprPCWk
9	2e-30	205 / 3150	Tcells_peripheral_blood_12_EnhBiv
10	2e-30	205 / 3150	monocytes_peripheral_blood_13_ReprPC
11	2e-29	187 / 2747	Tcells_peripheral_blood_12_EnhBiv
12	3e-29	168 / 2300	Thelper_cells_peripheral_blood_13_ReprPC
13	5e-26	185 / 2765	Tregulatory_cells_peripheral_blood_13_ReprPC
14	6e-26	157 / 1918	Thelper_cells_peripheral_blood_12_EnhBiv
15	9e-26	139 / 1799	T CD8+ naive cells_peripheral_blood_13_ReprPC

Rank	p-value	#in/all	Geneset
1	5e-74	91 / 248	JAEGER_METASTASIS_DN
2	4e-65	107 / 453	ONDER_CDH1_TARGETS_2_DN
3			

K-Means Cluster

Spot Summary: X

metagenes = 139
genes = 1050

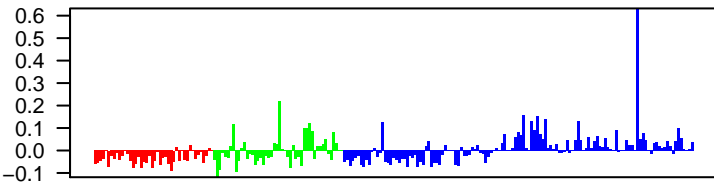
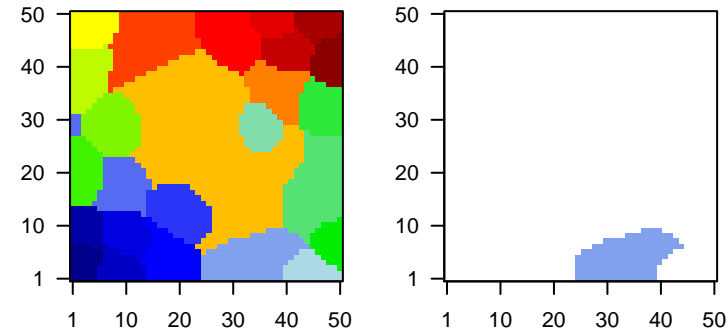
<r> metagenes = 0.66

beta: r2= 1.04 / log p= -Inf

samples with spot = 4 (1.8 %)
intermediate : 1 (2.1 %)
non-mBL : 3 (2.3 %)

Overview Map

Spot

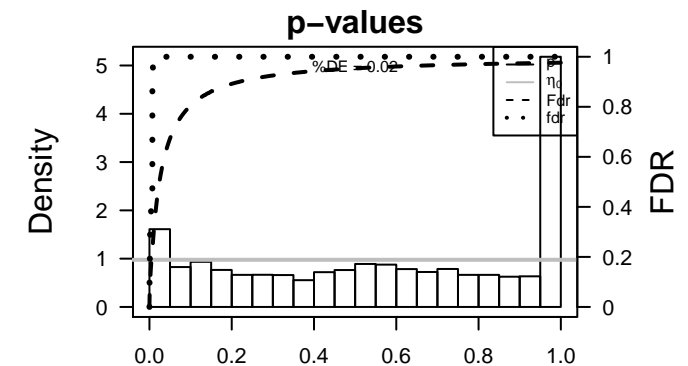


Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	209988_s_at	3.22	-0.78	0.11	ASCL1 achaete-scute family bHLH transcription factor 1 [Source:HG
2	219463_at	3.17	-0.88	0.24	LAMP5 lysosomal associated membrane protein family member 5 [Sc
3	202768_at	2.75	-0.96	0.23	FOSB FosB proto-oncogene, AP-1 transcription factor subunit [Sou
4	213768_s_at	2.71	-0.86	0.23	ASCL1 achaete-scute family bHLH transcription factor 1 [Source:HG
5	209987_s_at	2.71	-0.72	0.14	ASCL1 achaete-scute family bHLH transcription factor 1 [Source:HG
6	218332_at	2.62	-0.7	0.25	BEX1 brain expressed X-linked 1 [Source:HGNC Symbol;Acc:HGNC
7	205767_at	2.62	-0.51	0.48	EREG ephregulin [Source:HGNC Symbol;Acc:HGNC:3443]
8	215118_s_at	2.52	-1.42	0.21	
9	201525_at	2.5	-0.99	0.24	APOD apolipoprotein D [Source:HGNC Symbol;Acc:HGNC:612]
10	206759_at	2.49	-0.94	0.29	FCER2 Fc fragment of IgE receptor II [Source:HGNC Symbol;Acc:HC
11	218613_at	2.4	-0.84	0.07	PSD3 pleckstrin and Sec7 domain containing 3 [Source:HGNC Syrr
12	210763_x_at	2.4	-1.08	0.04	NCR3 natural cytotoxicity triggering receptor 3 [Source:HGNC Synt
13	216248_s_at	2.32	-0.9	0.31	NR4A2 nuclear receptor subfamily 4 group A member 2 [Source:HGn
14	219457_s_at	2.3	-0.85	0.11	RIN3 Ras and Rab interactor 3 [Source:HGNC Symbol;Acc:HGNC:
15	204622_x_at	2.28	-0.78	0.26	NR4A2 nuclear receptor subfamily 4 group A member 2 [Source:HGn
16	209695_at	2.28	-0.87	0.25	PTP4A3 protein tyrosine phosphatase type IVA, member 3 [Source:HC
17	222315_at	2.23	-0.97	0.09	
18	219168_s_at	2.19	-1.1	0.15	PRR5 proline rich 5 [Source:HGNC Symbol;Acc:HGNC:31682]
19	205051_s_at	2.19	-0.76	0.17	KIT KIT proto-oncogene receptor tyrosine kinase [Source:HGNC
20	204134_at	2.17	-1.07	0.01	PDE2A phosphodiesterase 2A [Source:HGNC Symbol;Acc:HGNC:87

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	7e-15	509 / 6368	Colon LaPointe_mucosa-position_kmeans_F_cecum colon_transverse colon_UP
2	2e-13	46 / 218	Refer WIRTH_pre+post GC B-cells
3	1e-08	155 / 1602	GSE/ BLALOCK_ALZHEIMERS_DISEASE_UP
4	5e-08	35 / 204	Refer Chaussabel_3_2_Inflammation I
5	5e-07	263 / 3210	CC plasma membrane
6	1e-06	37 / 251	GSE/ PEREZ_TP63_TARGETS
7	5e-06	41 / 311	GSE/ SHEN_SMARCA2_TARGETS_DN
8	2e-05	16 / 77	CC specific granule membrane
9	2e-05	20 / 112	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_DN
10	3e-05	161 / 1894	Lymph HOPP_Poised_promoter
11	4e-05	54 / 492	Colon LaPointe_mucosa-position_kmeans_C_cecum colon_ascending colon_tra
12	6e-05	64 / 621	BP negative regulation of transcription from RNA polymerase II promoter
13	7e-05	77 / 788	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
14	7e-05	42 / 358	GSE/ MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
15	7e-05	6 / 13	Refer WIRTH_Bone marrow
16	8e-05	27 / 193	HM HALLMARK_HEME_METABOLISM
17	1e-04	9 / 32	Gliom WIRTH_PN subtype
18	1e-04	24 / 166	GSE/ NAGASHIMA_NRG1_SIGNALING_UP
19	1e-04	245 / 3168	Lymph HOPP_Repressed
20	2e-04	24 / 169	GSE/ ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF
21	2e-04	15 / 83	GSE/ SMID_BREAST_CANCER_LUMINAL_A_UP
22	2e-04	6 / 15	BP definitive hemopoiesis
23	2e-04	25 / 182	Refer WIRTH_post GC B-cells
24	2e-04	25 / 183	GSE/ ZHANG_TLX_TARGETS_36HR_UP
25	2e-04	16 / 93	Refer Chaussabel_1_4_Replication
26	2e-04	20 / 132	Lymph Subero_DLCL_hyper_meth
27	2e-04	8 / 28	BP negative chemotaxis
28	2e-04	31 / 251	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
29	3e-04	11 / 52	MF steroid hormone receptor activity
30	3e-04	5 / 11	BP positive regulation of calcium ion-dependent exocytosis
31	3e-04	92 / 1029	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_UP
32	3e-04	25 / 189	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_3_DN
33	4e-04	248 / 3270	CC integral component of membrane
34	4e-04	13 / 70	GSE/ HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_UP
35	4e-04	7 / 23	CC voltage-gated calcium channel complex
36	4e-04	8 / 30	Refer JONGENEEL_Bone Marrow
37	4e-04	8 / 30	miRN hsa-miR-1258
38	4e-04	47 / 450	MF sequence-specific DNA binding
39	5e-04	11 / 54	miRN hsa-miR-1184
40	5e-04	11 / 54	GSE/ NAGASHIMA_EGF_SIGNALING_UP



Rank	p-value	#in/all	Geneset
1	0.06	10 / 92	HORVATH_aging_genes_meth_DOWN
2	0.81	2 / 41	TESCHENDORFF_age_hypermethylated
3	0.81	5 / 107	HORVATH_aging_genes_meth_UP
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

BP Rank	p-value	#in/all	Geneset
1	6e-05	64 / 621	negative regulation of transcription from RNA polymerase II promoter
2	2e-04	6 / 15	definitive hemopoiesis
3	2e-04	8 / 28	negative chemotaxis
4	3e-04	5 / 11	positive regulation of calcium ion-dependent exocytosis
5	5e-04	7 / 24	regulation of exocytosis
6	5e-04	5 / 12	cAMP catabolic process
7	6e-04	9 / 39	erythrocyte differentiation
8	6e-04	11 / 56	steroid hormone mediated signaling pathway
9	7e-04	9 / 40	intracellular receptor signaling pathway
10	1e-03	75 / 833	multicellular organism development
11	1e-03	5 / 14	negative regulation of protein complex assembly
12	0 / 0	8 / 35	cellular response to epidermal growth factor stimulus
13	1e-03	16 / 109	neuron differentiation
14	2e-03	11 / 62	hemopoiesis
15	2e-03	21 / 166	axon guidance

Rank	p-value	#in/all	Geneset
1	0.02	4 / 16	GENTLES_modul16
2	0.02	4 / 18	PanCan_Notch_geneset_nanostring
3	0.04	11 / 96	PanCan_TXMISReg_geneset_nanostring
4	0.04	3 / 13	GENTLES_modul18
5	0.05	12 / 113	PanCan_Driver_Gene_geneset_nanostring
6	0.08	14 / 147	PanCan_MAPIK_geneset_nanostring
7	0.11	2 / 11	WANG_ER_DN
8	0.14	12 / 134	PanCan_RAS_geneset_nanostring
9	0.19	17 / 11	LIU_PROSTATE_CANCER_UP
10	0.21	3 / 25	PanCan_HH_geneset_nanostring
11	0.22	2 / 14	GUSTAFSON_Pi3K_UP
12	0.22	2 / 14	GUSTAFSON_Pi3K_DN
13	0.22	1 / 16	LIU_LIVER_CANCER
14	0.30	10 / 130	PanCan_CC+Apop_geneset_nanostring
15	0.31	4 / 45	KUIPER_MM_poor_survival

CC Rank	p-value	#in/all	Geneset
1	5e-07	263 / 3210	plasma membrane
2	2e-05	16 / 77	specific granule membrane
3	4e-04	248 / 3270	integral component of membrane
4	4e-04	7 / 23	voltage-gated calcium channel complex
5	6e-04	41 / 382	synapse
6	6e-04	23 / 174	postsynaptic membrane
7	7e-04	17 / 113	receptor complex
8	8e-04	46 / 479	Golgi membrane
9	4e-03	7 / 33	myofibril
10	4e-03	93 / 1128	integral component of plasma membrane
11	6e-03	9 / 54	endoplasmic reticulum-Golgi intermediate compartment membrane
12	8e-03	6 / 29	dendritic shaft
13	8e-03	7 / 7	synaptic vesicle membrane
14	9e-03	77 / 938	Golgi apparatus
15	1e-02	369 / 5339	membrane

Chr Rank	p-value	#in/all	Geneset
1	0.01	36 / 382	Chr 15
2	0.01	65 / 776	Chr 17
3	0.02	47 / 548	Chr 16
4	0.11	27 / 333	Chr 22
5	0.11	5 / 41	Chr Y
6	0.13	29 / 369	Chr 20
7	0.25	35 / 492	Chr 9
8	0.27	89 / 1705	Chr 1
9	0.29	48 / 700	Chr 12
10	0.32	51 / 756	Chr 11
11	0.38	10 / 139	Chr 21
12	0.48	26 / 403	Chr 14
13	0.57	15 / 13	Chr 13
14	0.59	38 / 585	Chr 7
15	0.61	51 / 832	Chr 2

Rank	p-value	#in/all	Geneset
1	1e-11	183 / 1813	8_EnhP_Fibroblasts
2	4e-10	219 / 2375	10_ReprPC_Fibroblasts
3	245 / 2747	70c5_peripheral_blood_12_EnhBiv	
4	1e-09	167 / 1700	Bcels_peripheral_blood_11_BivFink
5	2e-09	204 / 2203	EnhA_Colon
6	6e-09	214 / 2374	9_ReprPCWk_Fibroblasts
7	2e-08	98 / 884	12_EnhBiv_ESC_Mesoderm
8	2e-08	205 / 2327	14_ReprPCWk_ESC_Mesoderm
9	1e-07	119 / 1181	8_EnhP_Neural_Progenitor
10	2e-07	300 / 3724	Tcels_peripheral_blood_12_EnhBiv
11	2e-07	189 / 2134	Tregulatory_cells_peripheral_blood_12_EnhBiv
12	7e-07	188 / 2154	Tregulatory_cells_peripheral_blood_11_BivFink
13	1e-06	21e-06	natural_killer_cells_peripheral_blood_12_EnhBiv
14	1e-06	205 / 2405	Bcels_peripheral_blood_13_ReprPC
15	1e-06	565 / 7943	Enh_Colon

Colon Cancer Rank	p-value	#in/all	Geneset
1	7e-15	509 / 6368	LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
2	4e-05	54 / 492	LaPointe_mucosa-position_kmeans_C_cecum_colon_ascending_colon_trans
3	5e-04	101 / 1166	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon_a
4	5e-03	11 / 72	Ang_CRC_Hypermethylated
5	9e-03	47 / 327	Ang_CRC_Hypermethylated
6	2e-02	27 / 278	Lembcke_TCGA_meth_kmeans_H_CIMP_L_UP_CIMP_H_DN
7	2e-02	42 / 483	Lembcke_TCGA_expr_kmeans_H_CIMP_H_UP_CIMPS3_DN
8	4e-02	89 / 1174	LaPointe_mucosa-position_kmeans_E_transverse_colon_UP_transverse_colo
9	4e-02	5 / 31	Kosinski_lower_crypt_short_list
10	6e-02	4 / 24	Pentack_CRC_TCGA_corr_TH_mss_UP_msi-h_DN
11	7e-02	5 / 35	Ang_CRC_Hypermethylated
12	8e-02	3 / 16	Vilar_mutated-in-CRC-Camp
13	8e-02	66 / 883	LaPointe_mucosa-position_kmeans_L_transverse_colon_cecum_colon_DN
14	9e-02	5 / 38	Marisa_CRC-cluster-e
15	1e-01	55 / 738	Lembcke_TCGA_expr_kmeans_N_CIMP_H_DN

Glioma Rank	p-value	#in/all	Geneset
1	1e-04	9 / 32	WIRTH_PN_subtype
2	4e-03	17 / 132	Christensen_hypermethylated_in_grade3_oligoastrocytoma
3	4e-03	15 / 112	Christensen_hypermethylated_in_grade3_astrocytoma
4	6e-03	28 / 268	Scov_0001_Sturm_M2_Mesenchymal_RTK1_PDGFR_A_DN
5	6e-03	40 / 421	Dost_7b
6	1e-02	14 / 114	Christensen_hypermethylated_in_grade2_oligoastrocytoma
7	1e-02	27 / 273	Hopp_Sturm_GBM_Epi3_B_adult_UP_G34_DN
8	2e-02	8 / 53	Christensen_hypermethylated_in_primary_glioblastoma
9	2e-02	11 / 87	Christensen_hypermethylated_in_secondary_glioblastoma
10	2e-02	7 / 45	10c_MOG-O1
11	2e-02	9 / 66	Christensen_hypermethylated_in_grade2_astrocytoma
12	2e-02	9 / 67	Sturm_GBM_Meth_overexpression_I_RTK1_PDGFR_A_UP
13	4e-02	15 / 144	Christensen_hypermethylated_in_grade2_oligodendroglioma
14	4e-02	8 / 62	GIEZELT_GBM_STS_down_VS_LTS
15	5e-02	11 / 99	GIEZELT_GBM_WT_up_VS_mut

GSEA C2 Rank	p-value	#in/all	Geneset
1	1e-08	155 / 1602	BLAZEK_ALZHEIMERS_DISEASE_UP
2	1e-06	37 / 251	PERLOV_TP63_TARGETS
3	5e-06	41 / 311	SHEN_SMARCA2_TARGETS_DN
4	2e-05	20 / 112	SCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_DN
5	7e-05	7 / 788	BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
6	7e-05	42 / 358	MORAGAU_MULTIPLE_MYELOMA_BY_TACI_UP
7	1e-04	24 / 166	NAGASHIMA_NRG1_SIGNALING_UP
8	2e-04	24 / 169	ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF
9	2e-04	15 / 83	SMID_BREAST_TRANSCRIPTOME_LUMINAL_A_UP
10	2e-04	25 / 183	ZHANG_TLX_TARGETS_36HR_UP
11	2e-04	31 / 251	KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN
12	3e-04	92 / 1029	DODD_NASOPHARYNGEAL_CARINOMA_UP
13	3e-04	25 / 189	LINDGREN_BLADDER_CANCER_CLUSTER_3_DN
14	4e-04	13 / 70	HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETAXEL_2NM_UP
15	5e-04	11 / 54	NAGASHIMA_EGF_SIGNALING_UP

LM Rank	p-value	#in/all	Geneset
1	8e-05	17 / 193	HALLMARK_HEME_METABOLISM
2	2e-03	7 / 29	HALLMARK_NOTCH_SIGNALING
3	4e-03	22 / 191	HALLMARK_P53_PATHWAY
4	6e-03	22 / 195	HALLMARK_KRAS_SIGNALING_DN
5	5e-02	18 / 190	HALLMARK_TNFA_SIGNALING_VIA_NFKB
6	6e-02	4 / 14	HALLMARK_MYOGENESIS
7	8e-02	17 / 187	HALLMARK_INFLAMMATORY_RESPONSE
8	9e-02	5 / 38	HALLMARK_WNT_BETA_CATENIN_SIGNALING
9	1e-01	13 / 141	HALLMARK_UV_RESPONSE_DN
10	2e-01	13 / 150	HALLMARK_APOPTOSIS
11	2e-01	16 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
12	2e-01	12 / 149	HALLMARK_UV_RESPONSE_UP
13	3e-01	13 / 173	HALLMARK_MITOTIC_SPINDL
14	3e-01	14 / 188	HALLMARK_HYPOXIA
15	3e-01	13 / 174	HALLMARK_APICAL_JUNCTION

Immunome Rank	p-value	#in/all	Geneset
1	0.1	3 / 18	Angelova_immune-metagenes-pDC
2	0.1	3 / 21	Angelova_immune-metagenes-central_memory_CD4
3	0.2	3 / 23	Angelova_immune-metagenes-Th2
4	0.2	3 / 23	Angelova_immune-metagenes-Treg
5	0.2	4 / 38	Angelova_immune-metagenes-mast-cells
6	0.3	3 / 32	Angelova_immune-metagenes-effector_memory_CD8
7	0.4	1 / 8	Angelova_immune-metagenes-mDC
8	0.5	1 / 10	Angelova_immune-metagenes-neutrophils
9	0.5	1 / 12	Angelova_immune-metagenes-memory_B-cells
10	0.5	1 / 12	Angelova_immune-metagenes-NK66_dim
11	0.5	3 / 45	Angelova_immune-metagenes-MDSC
12	0.6	3 / 29	Angelova_immune-metagenes-Th1
13	0.6	1 / 13	Angelova_immune-metagenes-activated_B-cells
14	0.6	1 / 14	Angelova_immune-metagenes-eosinophil
15	0.6	1 / 15	Angelova_immune-metagenes-NK

Lifestyle Rank	p-value	#in/all	Geneset
1	0.02	9 / 62	DUMEAUX_Smoking_enriched_genes
2	0.02	21 / 210	Homuth_BMI-associated_genes_DN
3	0.16	3 / 22	DUMEAUX_High_bmi_enriched_genes
4	0.24	12 / 150	Homuth_BMI-associated_genes_UP
5	0.28	1 / 5	DUMEAUX_Estrogen_related_in_smokers_literature_genes_up
6	0.41	1 / 12	DUMEAUX_aging_genes_LIF_TF
7	0.54	1 / 12	DUMEAUX_Women_natural_BMI_literature_genes_up
8	0.60	1 / 14	Huan_blood_pressure_SBP_signature
9	0.88	1 / 32	Marjolein_ageing_genes_DN
10	1.00	0 / 10	DUMEAUX_Smoking_literature_genes_up
11	1.00	17 / 143	DUMEAUX_Exercise_in_nonsmoker_literature_enriched_genes
12	1.00	0 / 7	DUMEAUX_Estrogen_related_in_nonsmokers_literature_genes_up
13	1.00	0 / 7	DUMEAUX_Hormon_therapy_in_nonsmokers_literature_genes_up
14	1.00	0 / 9	DUMEAUX_Monocytes_in_smokers_literature_genes_up
15	1.00	0 / 16	DUMEAUX_Red_blood_cells_in_nonsmokers_literature_genes_up

Lymphoma Rank	p-value	#in/all	Geneset
1	3e-05	161 / 1894	HOPP_Poised_promoter
2	1e-04	245 / 3168	HOPP_Repressed
3	2e-04	20 / 132	Subero_DLBCL_hyper_meth
4	1e-03	14 / 87	Hopp_Lymphoma_Epi1_with_zentr_v_B.cell_DN
5	3e-03	16 / 118	Subero_INT_hyper_meth
6	4e-03	11 / 70	Hopp_Lymphoma_Epi1_no_zentr_3_B.cell_DN
7	5e-03	7 / 35	Subero_MM_hyper_meth
8	1e-02	24 / 234	Hopp_Lymphoma_Epi1_no_zentr_6_MCL_DN
9	3e-02	11 / 91	Subero_T-ALL_hyper_meth
10	3e-02	9 / 70	Subero_FL_hyper_meth
11	3e-02	133 / 1814	HOPP_Repetitive
12	3e-02	7 / 49	LEE_Developmental_regulators
13	4e-02	365 / 5404	HOPP_Strong_antigen
14	5e-02	7 / 54	Hopp_Lymphoma_Epi1_no_zentr_1_B.cell_DN
15	5e-02	5 / 33	Subero_T-PLL_hypo_meth

Melanoma Rank	p-value	#in/all	Geneset
1	0.01	22 / 204	Landsberg_dedifferentiation_down
2	0.04	6 / 41	Tirosh_top50_correlated_genes_PC3
3	0.07	9 / 81	Tirosh_Genes_in_the_WITF_program
4	0.08	5 / 37	Hugo_melanoma-all-MET_DN
5	0.10	6 / 51	Tirosh_genes_from_CD8_T_cells_in_Mel17-melanoma
6	0.12	1 / 2	Melanoma_Epi-Enzyme_Cluster_2
7	0.14	10 / 107	Tirosh_Exhaustion_program_in_Mel175
8	0.15	1 / 6	Tirosh_genes_shared_by_CD8_T_cells_and_malign_cells_in_Mel179-melanoma
9	0.16	37 / 497	Gerber_wtwt_melanoma-cells-SpotD
10	0.18	1 / 3	Melanoma_Epi-Enzyme_Cluster_4
11	0.19	7 / 75	Tirosh_Endothelial-cell_specific_genes-melanoma
12	0.28	1 / 5	Hugo_melanoma-BRAFmut-MET_DN
13	0.32	1 / 6	Joensuu_Melanoma_high_immune_response_subtype
14	0.35	3 / 33	Tirosh_T-cell_specific_genes-melanoma
15	0.38	5 / 64	Harbst_melanoma_lowgrade_up

MF Rank	p-value	#in/all	Geneset
1	3e-04	11 / 52	steroid_hormone_receptor_activity
2	4e-04	47 / 450	sequence-specific_DNA_binding
3	5e-04	5 / 12	5'-cyclic-AMP_phosphodiesterase_activity
4	6e-04	9 / 39	nuclear_receptor_activity
5	6e-04	69 / 74	DNA_binding_transcription_factor_activity
6	9e-04	67 / 722	RNA_polymerase_II_transcription_factor_activity_sequence-specific_DNA_bindin
7	9e-04	24 / 191	transmembrane_signaling_receptor_activity
8	1e-03	11 / 61	phosphatidylinositol-4,5-bisphosphate_3-kinase_activity
9	2e-03	6 / 23	5'-cyclic-nucleotide_phosphodiesterase_activity
10	4e-03	8 / 42	phosphoric_diester_hydrolase_activity
11	5e-03	4 / 12	Rac_guanyl-nucleotide_exchange_factor_activity
12	7e-03	6 / 28	voltage-gated_calcium_channel_activity
13	9e-03	17 / 143	carbohydrate_binding
14	1e-02	10 / 87	transcriptional_repressor_activity_RNA_polymerase_II_transcription_regulatory_n
15	2e-02	8 / 52	chromatin_DNA_binding

mikNA target Rank	p-value	#in/all	Geneset
1	4e-04	8 / 30	hsa-miR-1258
2	5e-04	11 / 54	hsa-miR-1184
3	9e-04	17 / 115	hsa-miR-138
4	1e-03	9 / 41	hsa-miR-346
5	1e-03	20 / 151	hsa-miR-1283
6	1e-03	34 / 315	hsa-miR-144
7	1e-03	8 / 36	hsa-miR-146b-3p
8	2e-03	11 / 62	hsa-miR-205
9	2e-03	23 / 116	hsa-miR-524-5p
10	3e-03	40 / 405	hsa-miR-107
11	4e-03	9 / 50	hsa-miR-1285
12	4e-		

K-Means Cluster

Spot Summary: Y

metagenes = 47
genes = 821

<r> metagenes = 0.92

<r> genes = 0.24

beta: r2= 4.97 / log p= -Inf

samples with spot = 26 (11.8 %)

intermediate : 6 (12.5 %)

non-mBL : 20 (15.5 %)

Spot Genelist

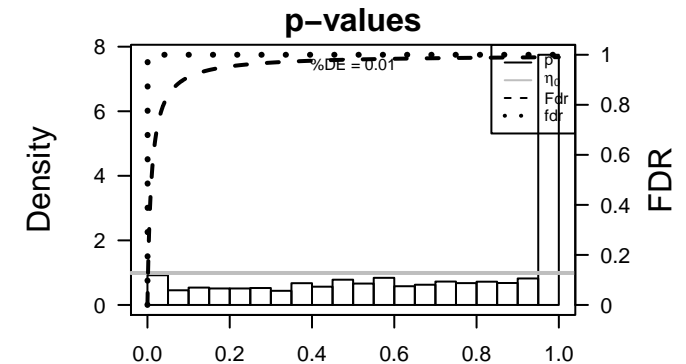
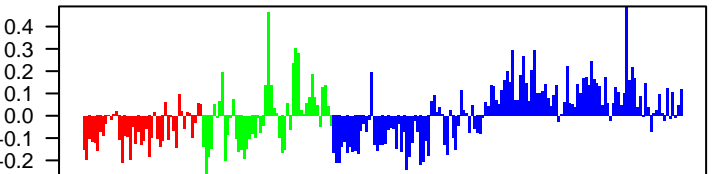
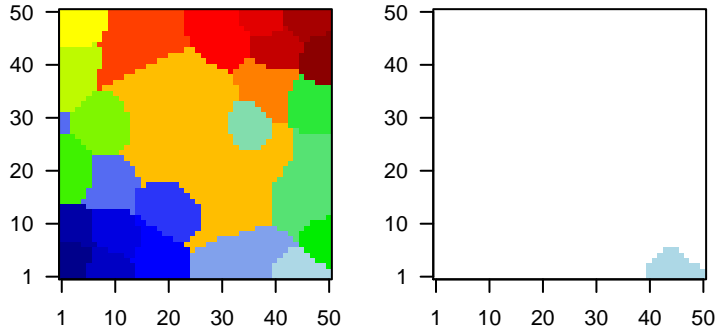
Rank	ID	max e	r	min e	Description
					Symbol
1	212236_x_at	2.22	-0.68	0.53	KRT17 keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]
2	205033_s_at	2.2	-0.66	0.43	DEFA1 defensin alpha 1 [Source:HGNC Symbol;Acc:HGNC:2761]
3	38691_s_at	2.17	-0.66	0.28	SFTPC surfactant protein C [Source:HGNC Symbol;Acc:HGNC:1080]
4	209800_at	2.16	-0.6	0.49	KRT16 keratin 16 [Source:HGNC Symbol;Acc:HGNC:6423]
5	214532_x_at	2.06	-0.84	0.3	POU5F1 POU class 5 homeobox 1 [Source:HGNC Symbol;Acc:HGNC
6	202222_s_at	1.96	-0.73	0.57	DES desmin [Source:HGNC Symbol;Acc:HGNC:2770]
7	207337_at	1.83	-1.04	0.48	CTAG2 cancer/testis antigen 2 [Source:HGNC Symbol;Acc:HGNC:24
8	206012_at	1.77	-0.72	0.36	LEFTY2 left-right determination factor 2 [Source:HGNC Symbol;Acc:1
9	206760_s_at	1.74	-0.74	0.48	FCER2 Fc fragment of IgE receptor II [Source:HGNC Symbol;Acc:HC
10	214027_x_at	1.73	-0.87	0.45	DES desmin [Source:HGNC Symbol;Acc:HGNC:2770]
11	218687_s_at	1.71	-0.55	0.47	MUC13 mucin 13, cell surface associated [Source:HGNC Symbol;Acc
12	209957_s_at	1.66	-0.88	0.62	NPPA natriuretic peptide A [Source:HGNC Symbol;Acc:HGNC:7939
13	205116_at	1.66	-0.71	0.42	LAMA2 laminin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:64
14	205334_at	1.65	-0.71	0.5	S100A1 S100 calcium binding protein A1 [Source:HGNC Symbol;Acc:
15	64408_s_at	1.59	-0.71	0.21	
16	207388_s_at	1.59	-1.07	0.44	PTGES prostaglandin E synthase [Source:HGNC Symbol;Acc:HGNC
17	222015_at	1.58	-0.94	0.32	CSNK1E casein kinase 1 epsilon [Source:HGNC Symbol;Acc:HGNC:2
18	208607_s_at	1.55	-0.64	0.46	SAA2 serum amyloid A2 [Source:HGNC Symbol;Acc:HGNC:10514]
19	214403_x_at	1.53	-1.06	0.6	
20	205409_at	1.51	-0.76	0.45	FOSL2 FOS like 2, AP-1 transcription factor subunit [Source:HGNC :

Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-26	73 / 358	GSE# MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
2	5e-15	412 / 6368	Colon LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP
3	2e-12	22 / 72	GSE# MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP
4	4e-11	39 / 239	GSE# GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
5	6e-09	55 / 483	Colon Lembcke_TCGA-expr_kmeans_H_CIMP_H_UP_Cluster3_DN
6	2e-08	55 / 501	GSE# MARTENS_TRETINOIN_RESPONSE_UP
7	8e-08	39 / 311	GSE# SHEN_SMARCA2_TARGETS_DN
8	5e-07	42 / 373	GSE# MIKKELSEN_MEF_HCP_WITH_H3K27ME3
9	9e-07	121 / 1602	GSE# BLALOCK_ALZHEIMERS_DISEASE_UP
10	4e-06	10 / 34	BP respiratory gaseous exchange
11	1e-05	204 / 3168	Lymph HOPP_Repressed
12	1e-05	16 / 94	GSE# KIM_GASTRIC_CANCER_CHEMOSENSITIVITY
13	1e-05	26 / 209	Refer Chaussabel_2_5_Immune related molecules
14	3e-05	9 / 34	BP regulation of synaptic plasticity
15	4e-05	49 / 548	Chr Chr 16
16	4e-05	130 / 1894	Lymph HOPP_Poised_promoter
17	5e-05	24 / 198	GSE# EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_UP
18	5e-05	34 / 333	Chr Chr 22
19	7e-05	153 / 2321	TF ICGC_Rad21_targets
20	8e-05	14 / 86	Gliom Sturm_GBM_Meth_overexpression_B_adult_UP
21	1e-04	59 / 730	GSE# BENPORATH_ES_WITH_H3K27ME3
22	1e-04	24 / 212	GSE# MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3
23	2e-04	65 / 833	Chr Chr 19
24	2e-04	4 / 7	Gliom Sturm_GBM_Meth_overexpression_C_G34_UP
25	2e-04	12 / 73	GSE# NIKOLSKY_BREAST_CANCER_16P13_AMPLICON
26	2e-04	22 / 194	HM HALLMARK_MYOGENESIS
27	3e-04	22 / 195	BP chemical synaptic transmission
28	3e-04	5 / 13	BP lens fiber cell differentiation
29	3e-04	42 / 485	TF ICGC_NrsfPcr2_targets
30	3e-04	11 / 65	BP excitatory postsynaptic potential
31	5e-04	32 / 346	MF receptor binding
32	5e-04	34 / 377	GSE# BLALOCK_ALZHEIMERS_DISEASE_INCIPENT_UP
33	8e-04	8 / 41	GSE# SATO_SILENCED_BY_DEACETYLATION_IN_PANCREATIC_CANCER
34	8e-04	5 / 16	BP histone H3 deacetylation
35	8e-04	5 / 16	BP regulation of dendrite morphogenesis
36	8e-04	5 / 16	GSE# STARK_HYPPOCAMPUS_22Q11_DELETION_DN
37	9e-04	12 / 85	BP glucose homeostasis
38	1e-03	22 / 214	GSE# MIKKELSEN_NPC_HCP_WITH_H3K27ME3
39	1e-03	4 / 10	BP cerebellar Purkinje cell differentiation
40	1e-03	4 / 10	CC synaptic cleft

Overview Map

Spot



Aging Rank	p-value	#in/all	Geneset
1	0.04	10 / 107	HORVATH_aging_genes_meth_UP
2	0.30	6 / 92	HORVATH_aging_genes_meth_DOWN
3	0.68	2 / 47	TESCHENDORFF_age_hypermethylated
4	NA	0 / 0	
5	NA	0 / 0	
6	NA	0 / 0	
7	NA	0 / 0	
8	NA	0 / 0	
9	NA	0 / 0	
10	NA	0 / 0	
11	NA	0 / 0	
12	NA	0 / 0	
13	NA	0 / 0	
14	NA	0 / 0	
15	NA	0 / 0	

BP Rank	p-value	#in/all	Geneset
1	4e-06	10 / 34	respiratory gaseous exchange
2	9 / 34	9 / 34	regulation of synaptic plasticity
3	3e-04	22 / 195	chemical synaptic transmission
4	3e-04	5 / 13	lens fiber cell differentiation
5	3e-04	11 / 65	excitatory postsynaptic potential
6	8e-04	5 / 16	histone H3 deacetylation
7	5 / 16	5 / 16	regulation of dendrite morphogenesis
8	9e-04	12 / 85	glucose homeostasis
9	1e-03	4 / 10	cerebellar Purkinje cell differentiation
10	1e-03	6 / 26	neural crest cell migration
11	2e-03	19 / 183	extracellular matrix organization
12	5e-03	62 / 933	multicellular organism development
13	2e-03	4 / 12	regulation of embryonic development
14	2e-03	5 / 20	regulation of Wnt signaling pathway
15	3e-03	6 / 29	neuronal action potential

Cancer Rank	p-value	#in/all	Geneset
1	0.1	2 / 12	LIU_BREAST_CANCER
2	0.12	2 / 16	LIU_LIVER_CANCER
3	0.2	2 / 14	LIU_COMMON_CANCER_GENES
4	0.2	2 / 14	LIU_PROSTATE_CANCER_DN
5	0.2	2 / 14	BENTINK_ras6
6	0.2	10 / 147	PanCan_MAPK_geneset_nanostrng
7	0.2	8 / 134	PanCan_Driver_Gene_geneset_nanostrng
8	0.2	7 / 96	PanCan_TXMrisReg_geneset_nanostrng
9	0.2	12 / 187	PanCan_PI3K_geneset_nanostrng
10	0.2	2 / 18	PanCan_Notch_geneset_nanostrng
11	0.3	2 / 20	PanCan_ChromMod_geneset_nanostrng
12	0.3	8 / 134	PanCan_RAS_geneset_nanostrng
13	0.4	1 / 9	WANG_ER_DN
14	0.4	2 / 28	PanCan_HK_geneset_nanostrng
15	0.4	3 / 47	PanCan_TGF-B_geneset_nanostrng

CC Rank	p-value	#in/all	Geneset
1	0.001	4 / 10	synaptic cleft
2	0.001	26 / 277	neuronal projection
3	0.002	17 / 1128	integral component of plasma membrane
4	0.003	13 / 109	dendritic spine
5	0.004	7 / 42	sarcoplasmic reticulum
6	0.006	190 / 3270	integral component of membrane
7	0.006	26 / 310	dendrite
8	0.008	1 / 35	ciliary membrane
9	0.009	185 / 3210	plasma membrane
10	0.011	44 / 623	cell projection
11	0.011	7 / 50	terminal bouton
12	0.011	3 / 10	beta-catenin destruction complex
13	0.011	2 / 101	endomembrane system
14	0.014	7 / 52	clathrin-coated pit
15	0.015	6 / 41	intermediate filament cytoskeleton

Chr Rank	p-value	#in/all	Geneset
1	4e-05	49 / 548	Chr 16
2	5e-05	34 / 333	Chr 22
3	2e-04	25 / 119	Chr 19
4	1e-03	40 / 492	Chr 9
5	3e-02	50 / 776	Chr 17
6	2e-01	43 / 756	Chr 11
7	3e-01	9 / 139	Chr 21
8	4e-01	37 / 700	Chr 12
9	5e-01	19 / 369	Chr 20
10	6e-01	2 / 41	Chr Y
11	7e-01	20 / 437	Chr 8
12	7e-01	31 / 669	Chr 6
13	8e-01	24 / 54	Chr 5
14	9e-01	24 / 585	Chr 7
15	9e-01	22 / 556	Chr X

Chromatin states Rank	p-value	#in/all	Geneset
1	2e-19	135 / 1239	EnhP_Colon
2	2e-18	172 / 1813	8_EnhP_Fibroblasts
3	3e-18	5 / 3724	5cells_peripheral_blood_12_EnhBiv
4	1e-14	150 / 1634	8_EnhP_Melanocytes
5	2e-13	192 / 2375	10_ReprPC_Fibroblasts
6	5e-13	151 / 1729	8_EnhP_Skeletal_Muscle
7	7e-13	182 / 2240	1_TssP_Fibroblasts
8	7e-12	165 / 2015	7eP_Colon
9	9e-12	194 / 2505	Mid_Frontal_Lobe_ReprPC
10	5e-11	230 / 3184	monocytes_peripheral_blood_12_EnhBiv
11	6e-11	173 / 2203	EnhA_Colon
12	8e-11	157 / 1943	TssP_Colon
13	1e-10	195 / 602	natural killer cells_peripheral_blood_12_EnhBiv
14	2e-10	203 / 2747	Bcells_peripheral_blood_12_EnhBiv
15	4e-10	167 / 2148	10_ReprPC_Skeletal_Muscle

Colon Cancer Rank	p-value	#in/all	Geneset
1	5e-15	412 / 6368	LaPointe_mucosa-position_kmeans_F_cecum_colon_transverse_colon_UP_
2	6e-09	55 / 483	Lembcke_TCGA_expr_kmeans_H_CIMP_H_UP_Cluster3_DN
3	9e-03	39 / 532	LaPointe_mucosa-position_kmeans_B_ascending_colon_transverse_colon_UI
4	1e-02	39 / 539	Lembcke_TCGA_meth_kmeans_L_CIMP_H_DN
5	1e-02	36 / 492	LaPointe_mucosa-position_kmeans_C_ascending_colon_transverse_colon_transi
6	2e-02	55 / 848	LaPointe_mucosa-position_kmeans_O_transverse_colon_UP_
7	2e-02	32 / 448	Lembcke_TCGA_meth_kmeans_J_CIMP_H_DN
8	5e-02	17 / 221	Lembcke_TCGA_meth_kmeans_A_Cluster4_DN
9	5e-02	19 / 255	Kosinski_top_crypt_long_list
10	2e-02	2 / 3	Maria_CRC_2
11	7e-02	69 / 1166	LaPointe_mucosa-position_kmeans_K_transverse_colon_UP_cecum_colon_a
12	1e-01	21 / 318	Lembcke_TCGA_meth_kmeans_E_CIMP_H_UP_
13	1e-01	22 / 349	Lembcke_TCGA_meth_kmeans_F_CIMP_H_UP_
14	2e-01	11 / 164	Lembcke_TCGA_meth_kmeans_B_Cluster4_DN
15	2e-01	18 / 290	Lembcke_TCGA_meth_kmeans_O_CIMP_H_DN

Glioma Rank	p-value	#in/all	Geneset
1	8e-05	14 / 86	Sturm_GBM_Meth_overexpression_B_adult_UP
2	2e-04	4 / 7	Sturm_GBM_Meth_overexpression_C_G34_UP
3	4e-03	34 / 423	Down_a
4	5e-03	104 / 1652	Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
5	6e-03	33 / 421	Down_b
6	7e-03	4 / 16	VERHAAK_CL_subtype
7	2e-02	9 / 81	GIEZELT_GBM_MGMTmethyl_up_VS_nonmethyl
8	4e-02	8 / 78	Hopp_Sturm_GBM_Epi3_A1_Mesenchymal_UP
9	5e-02	5 / 41	Hopp_Sturm_GBM_Epi3_C1_IDH_UP_fetus_DN
10	6e-02	12 / 144	Christensen_hypermethylated_in_grade2_oligodendroglioma
11	6e-02	11 / 132	Christensen_hypermethylated_in_grade3_oligoastrocytoma
12	7e-02	3 / 20	Mukasa_UP_in_Oligodendroglioma_with_1pLOH
13	8e-02	4 / 33	Sturm_GBM_Meth_overexpression_Y_IDH_UP
14	1e-01	6 / 64	Weller_LGG_gradeII-vs-III_UP
15	1e-01	5 / 50	Christensen_typomethylated_in_primary_glioblastoma

GSEA C2 Rank	p-value	#in/all	Geneset
1	6e-26	73 / 358	MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP
2	2e-12	22 / 72	MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP
3	4e-11	39 / 239	GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN
4	2e-08	55 / 501	MRENTENS_TRETNININ_RESPONSE_UP
5	8e-02	39 / 811	SHERSMARCA2_TARGETS_DN
6	5e-07	42 / 373	MIKKESEN_MEH_HCP_WITH_H3K27ME3
7	9e-07	121 / 1602	BLALOCK_ALZHEIMERS_DISEASE_UP
8	1e-05	16 / 94	KIM_GASTRIC_CANCER_CHEMOSENSITIVITY
9	5e-05	24 / 198	EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_UP
10	1e-04	39 / 730	PANPORATH_ES_WITH_H3K27ME3
11	1e-04	24 / 212	MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3
12	2e-04	12 / 73	NIKOLSKY_BREAST_CANCER_16K25_AMPLICON
13	5e-04	34 / 377	BLALOCK_ALZHEIMERS_DISEASE_INCIPIENT_UP
14	8e-04	8 / 41	SATO_SILENCED_BY_DEACETYLATION_IN_PANCREATIC_CANCER
15	8e-04	5 / 16	STARX_HYPOCAMPUS_222111_DELETION_DN

LM Rank	p-value	#in/all	Geneset
1	2e-04	22 / 194	HALLMARK_MYOGENESIS
2	3e-02	15 / 174	HALLMARK_APICAL_JUNCTION
3	3e-02	16 / 194	HALLMARK_ESTROGEN_RESPONSE_EARLY
4	9e-02	4 / 34	HALLMARK_APICAL_SURFACE
5	1e-01	14 / 195	HALLMARK_KRAS_SIGNALING_DN
6	1e-01	4 / 38	HALLMARK_WNT_BETA_CATENIN_SIGNALING
7	2e-01	11 / 173	HALLMARK_MITOTIC_SPINDLE
8	2e-01	11 / 174	HALLMARK_ADIPOGENESIS
9	2e-01	4 / 51	HALLMARK_TGF_BETA_SIGNALING
10	3e-01	9 / 139	HALLMARK_FATTY_ACID_METABOLISM
11	4e-01	4 / 59	HALLMARK_CHOLESTEROL_HOMEOSTASIS
12	4e-01	11 / 193	HALLMARK_ESTROGEN_RESPONSE_LATE
13	5e-01	7 / 130	HALLMARK_COAGULATION
14	5e-01	9 / 170	HALLMARK_IL2_STATS_SIGNALING
15	5e-01	5 / 96	HALLMARK_ANDROGEN_RESPONSE

Immuno Rank	p-value	#in/all	Geneset
1	0.007	4 / 16	Angelova_immune-metagene-Th17
2	0.116	2 / 12	Angelova_immune-metagene-NK56_dim
3	0.224	1 / 5	Angelova_immune-metagene-NK56_bright
4	0.263	1 / 6	Immunity_immune-checkpoint-inhibitors
5	0.334	1 / 8	Angelova_immune-metagene-MDC
6	0.325	2 / 25	Immunity_immune-metagene-DC
7	0.398	7 / 10	Angelova_immune-metagene-TFH
8	0.398	1 / 10	Angelova_CRC_immonoinhibitors
9	0.425	2 / 29	Angelova_immune-metagene-Th1
10	0.509	1 / 14	Angelova_immune-metagene-eosinophil
11	0.579	1 / 17	Angelova_immune-metagene-central_memory_CD8
12	0.619	1 / 10	Angelova_immune-metagene-IDC
13	0.661	2 / 45	Angelova_immune-metagene-MDSC
14	0.690	1 / 23	Angelova_immune-metagene-Treg
15	1.000	0 / 13	Angelova_immune-metagene-activated_B-cells

Lifestyle Rank	p-value	#in/all	Geneset
1	0.04	2 / 7	DUMEAUX_Estrogen related in non smokers literature genes up
2	0.30	2 / 22	DUMEAUX_High bmi enriched genes
3	0.30	2 / 22	DUMEAUX_Fasting enriched genes
4	0.37	4 / 62	DUMEAUX_Smoking enriched genes
5	0.51	1 / 14	Huan_blood-pressure_SBP-signature
6	0.62	7 / 150	TIROSH_BMI-associated-genes_UP
7	0.90	7 / 210	Homuth_BMI-associated-genes_DN
8	1.00	0 / 10	DUMEAUX_Smoking literature genes up
9	1.00	0 / 4	DUMEAUX_Exercising non smoker literature enriched genes
10	1.00	0 / 5	DUMEAUX_Estrogen related in smokers literature genes up
11	1.00	0 / 11	DUMEAUX_Hormon therapy in non smokers literature genes up
12	1.00	0 / 9	DUMEAUX_Monocytes in smokers literature genes up
13	1.00	0 / 16	DUMEAUX_Red blood cells in non smokers literature genes up
14	1.00	0 / 12	DUMEAUX_Women normal BMI literature genes up
15	1.00	0 / 13	Huan_blood-pressure_DBP-signature

Lymphoma Rank	p-value	#in/all	Geneset
1	1e-05	204 / 3168	HOPP_Repressed
2	4e-05	130 / 1894	HOPP_Poised_promoter
3	1e-03	9 / 54	Hopp_Lymphoma_Epi1_no_zentr_1_B.cell_DN
4	6e-03	7 / 45	Subero_INT_hypo_meth
5	1e-02	10 / 87	Hopp_Lymphoma_Epi1_with_zentr_v_B.cell_DN
6	6e-02	6 / 46	Subero_DLBCL_hypo_meth
7	5e-02	6 / 53	LENZ_Stromal_signature_2
8	6e-02	3 / 19	Subero_MCL_hypo_meth
9	8e-02	4 / 33	Subero_T-PLL_hypo_meth
10	1e-01	3 / 23	Subero_mBL_hypo_meth
11	1e-01	8 / 102	ROSLOWSKI_blue_total
12	1e-01	5 / 56	Hopp_Lymphoma_Epi1_with_zentr_iv_B.cell_MM_UP
13	1e-01	4 / 41	ROSLOWSKI_blue_DOWN
14	2e-01	2 / 14	Subero_B-ALL_hypo_meth
15	2e-01	9 / 132	Subero_DLBCL_hyper_meth

Melanoma Rank	p-value	#in/all	Geneset
1	0.009	6 / 37	Hugo_melanoma-all-MET_DN
2	0.011	3 / 10	Joensuu_Melanoma_Normal_like_subtype
3	0.082	15 / 204	Landsberg_dedifferentiation_down
4	0.097	1 / 2	Melanoma_Epi-Enzyme_Cluster 1
5	0.100	2 / 11	Tirosh_genes_shared_by_CD8_T_cells_and_malign_cells_in_Mel79-melanoma
6	0.113	17 / 249	Gerber_w/wt_melanoma-cells-SpotE
7	0.245	4 / 51	Tirosh_genes_from_CD8_T_cells_in_Mel79-melanoma
8	0.304	3 / 39	Tirosh_top50_correlated_genes_PC4
9	0.304	3 / 39	Tirosh_melanoma_specific_genes
10	0.335	4 / 59	TCGA_melanoma_keratin_high
11	0.335	2 / 24	Gerami_melanoma-metastatic-risk_DN
12	0.344	5 / 78	Tirosh_CAF-cell_specific_genes
13	0.343	4 / 64	Haidt_melanoma_lowgrade_UP
14	0.413	5 / 85	Tirosh_AXL-signature
15	0.475	9 / 171	Landsberg_dedifferentiation_up

MF Rank	p-value	#in/all	Geneset
1	5e-04	32 / 346	receptor binding
2	2e-03	54 / 722	RNA polymerase II transcription factor activity, sequence-specific DNA binding
3	2e-03	9 / 58	cytoskeletal protein binding
4	3e-03	54 / 741	DNA binding transcription factor activity
5	3e-03	5 / 21	transcription factor activity, transcription factor binding
6	3e-03	8 / 51	ubiquitin binding
7	4e-03	14 / 125	transcriptional activator activity, RNA polymerase II transcription regulatory re
8	7e-03	4 / 16	G-protein coupled peptide receptor activity
9	7e-03	23 / 268	transcription factor binding
10	8e-03	4 / 17	cAMP binding
11	9e-03	17 / 182	RNA polymerase II regulatory region sequence-specific DNA binding
12	9e-03	34 / 450	sequence-specific DNA binding
13	1e-02	3 / 10	fucosyltransferase activity
14	1e-02	3 / 10	water channel activity
15	1e-02	6 / 39	nuclear receptor activity

miRNA target Rank	p-value	#in/all	Geneset
1	0.01	5 / 28	hsa-miR-296-5p
2	0.02	4 / 21	hsa-miR-483-3p
3	0.03	8 / 42	hsa-miR-338-5p
4	0.03	2 / 6	hsa-miR-888-5p
5	0.04	6 / 50	hsa-miR-371-5p
6	0.04	4 / 26	hsa-miR-558
7	0.06	5 / 43	hsa-miR-328
8	0.07	6 / 58	hsa-miR-331-3p
9	0.07	4 / 32	hsa-miR-615-5p
10	0.08	6 / 60	hsa-miR-1321
11	0.10	6 / 64	hsa-miR-510
12	0.10	2 / 11	hsa-miR-1249
13	0.10	4 / 36	hsa-miR-146b-3p
14	0.10	4 / 36	hsa-miR-765
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