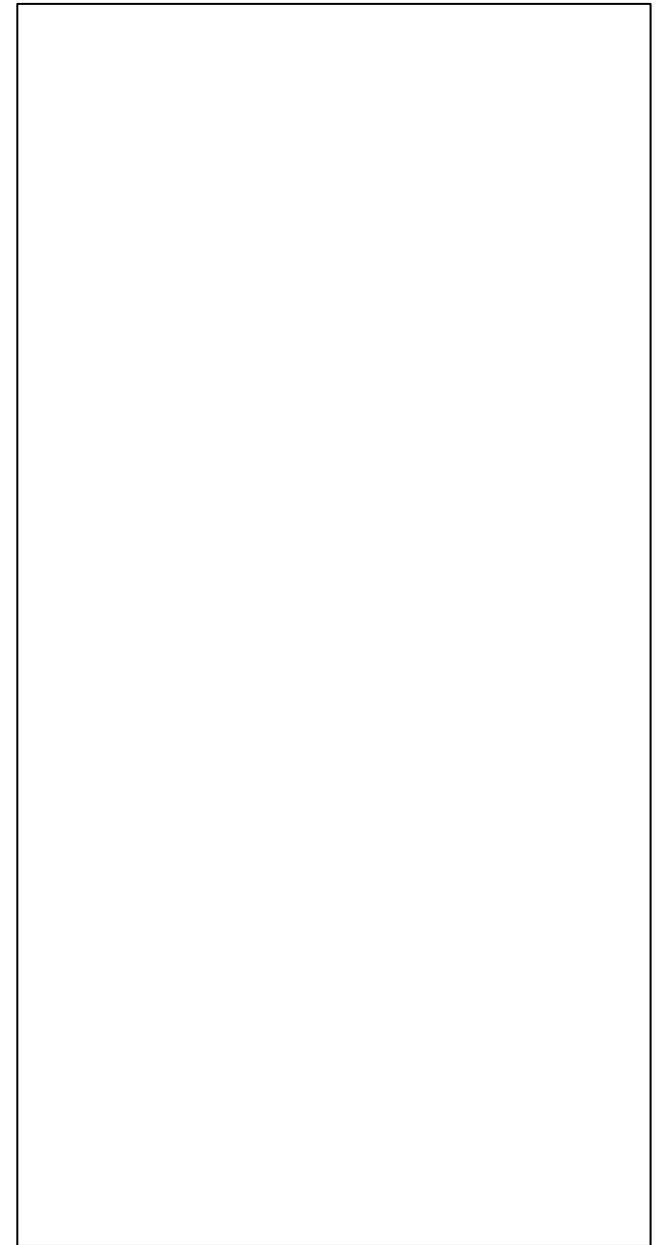


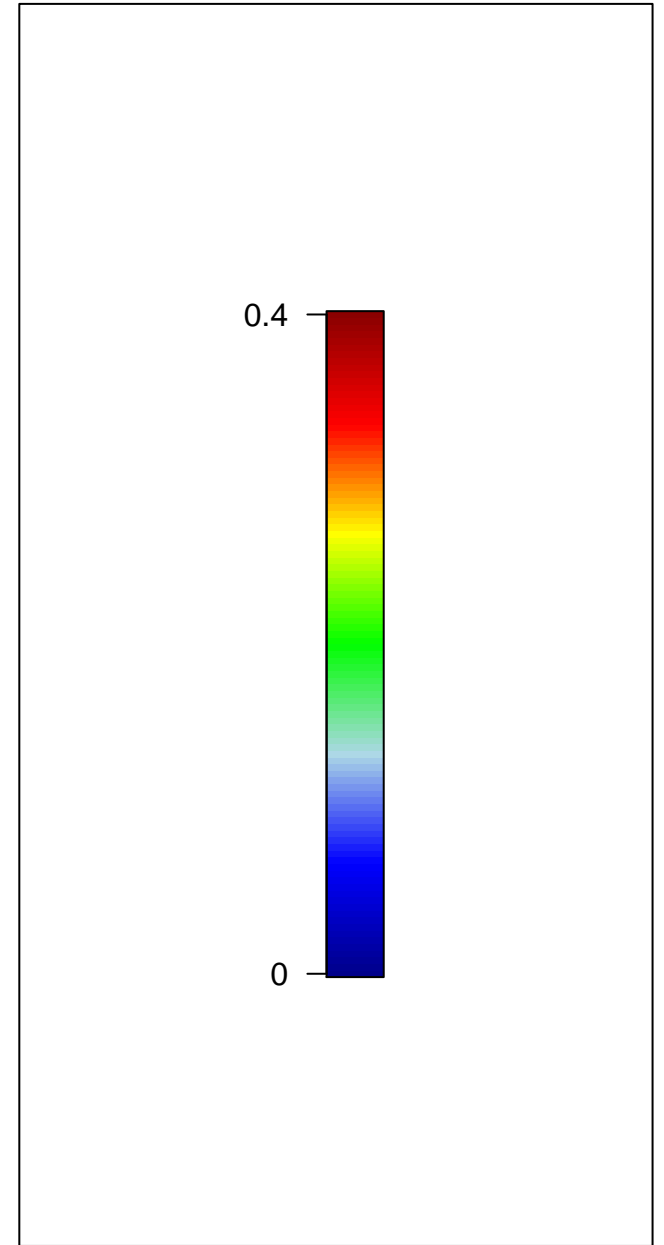
# Correlation Clusters

landscape



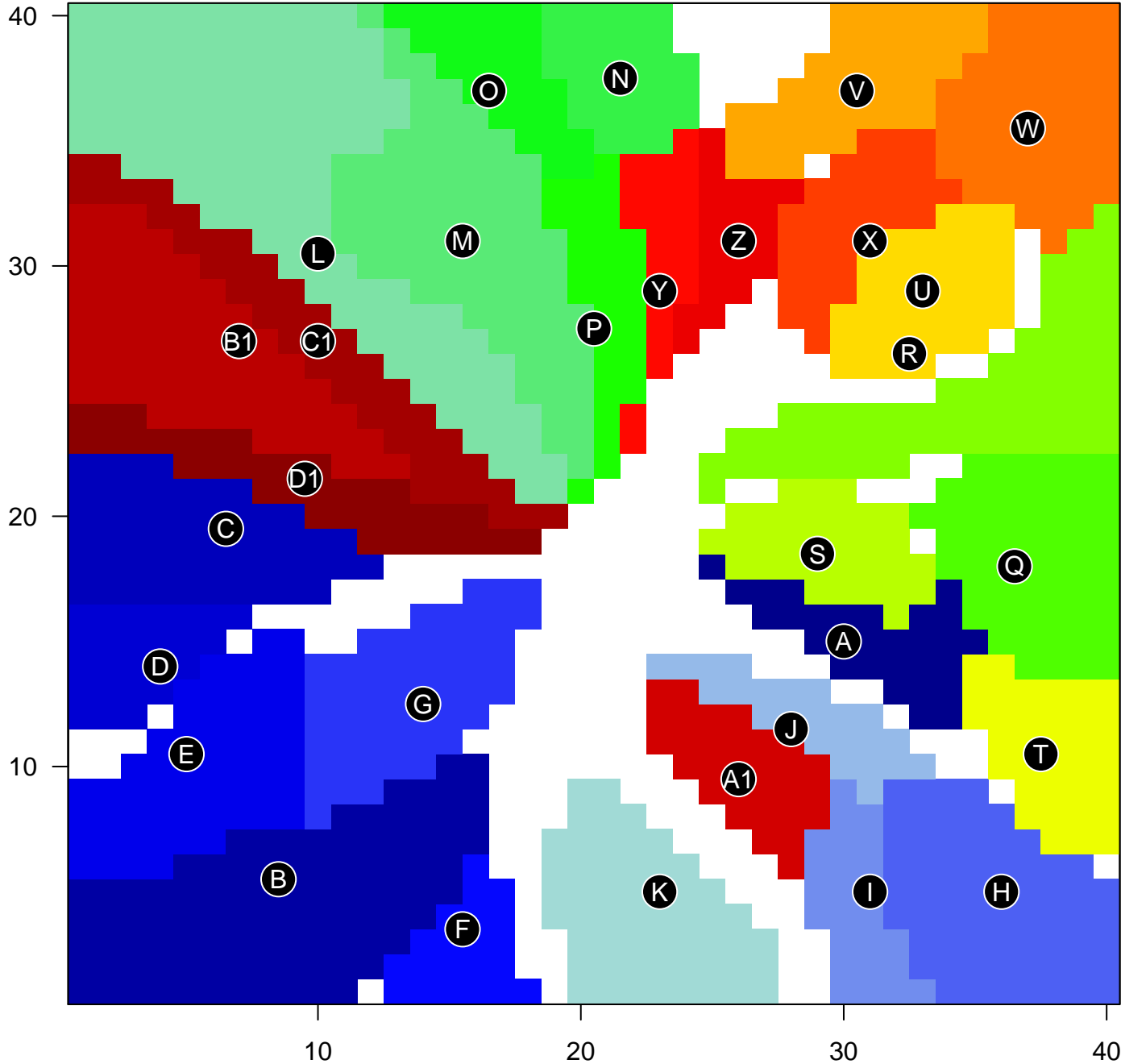
# Correlation Clusters

beta-scores



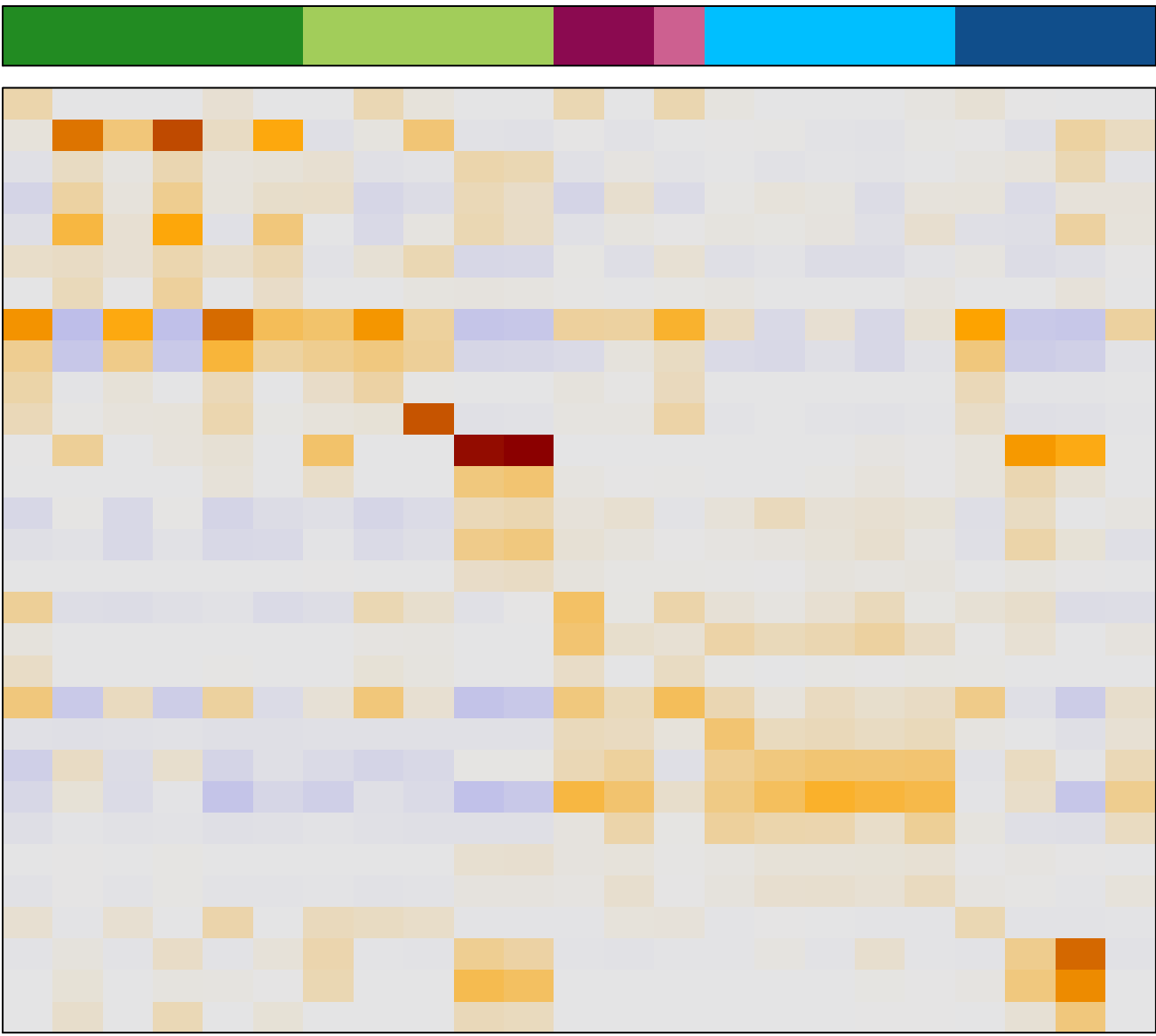
# Correlation Clusters

annotation

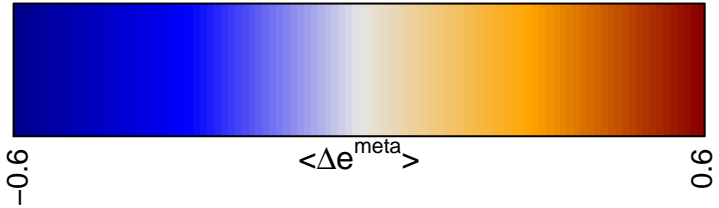


- A ■ ubiquitinyl hydrolase activity  
ubiquitin-dependent protein catabolic process  
cysteine-type peptidase activity
- B ■ WIRTH\_Immune system  
Lembcke\_Colonc Inflammation  
HOPP\_Strong\_enhancer
- C ■ Overlap\_fetal\_midbrain\_HetRpts  
Overlap\_fetal\_midbrain\_ReprPC  
HOPP\_Txn\_elongation
- D ■ HOPP\_Txn\_elongation  
Overlap\_fetal\_midbrain\_HetRpts  
TxWk\_Colon
- E ■ HOPP\_Txn\_transition  
HOPP\_Txn\_elongation  
Overlap\_fetal\_midbrain\_HetRpts
- F ■ Tx\_Colon  
HOPP\_Strong\_enhancer  
TxEnhG1\_Colon
- G ■ ZNF\_Colon  
Het\_Colon  
transcription, DNA-templated
- H ■ Pentrack\_CRC\_TCGA\_corr\_C\_normal\_UP  
Pentrack\_CRC\_TCGA\_group.over\_A\_normal\_UP  
EnhA\_Colon
- I ■ Pentrack\_CRC\_TCGA\_corr\_C\_normal\_UP  
TxWk\_Colon  
Tx\_Colon
- J ■ respiratory gaseous exchange  
HOOI\_ST7\_TARGETS\_DN  
Lembcke\_TCGA-expr\_kmeans\_L\_CIMP.H\_UP\_Cluster4\_U
- K ■ HSIAO\_LIVER\_SPECIFIC\_GENES  
small molecule metabolic process  
SANSOM\_APC\_TARGETS\_DN
- L ■ LIU\_PROSTATE\_CANCER\_DN  
Marisa\_CRC-cluster-b  
LIM\_MAMMARY\_STEM\_CELL\_UP
- M ■ ReprPCWk\_Colon  
WIRTH\_Nervous System  
Quies1\_Colon
- N ■ Overlap\_fetal\_midbrain\_HetRpts  
HOPP\_Txn\_elongation  
Overlap\_fetal\_midbrain\_ReprPC
- O ■ Overlap\_fetal\_midbrain\_K9K27me3  
TssA\_Colon  
TssF\_Colon
- P ■ Het\_Colon

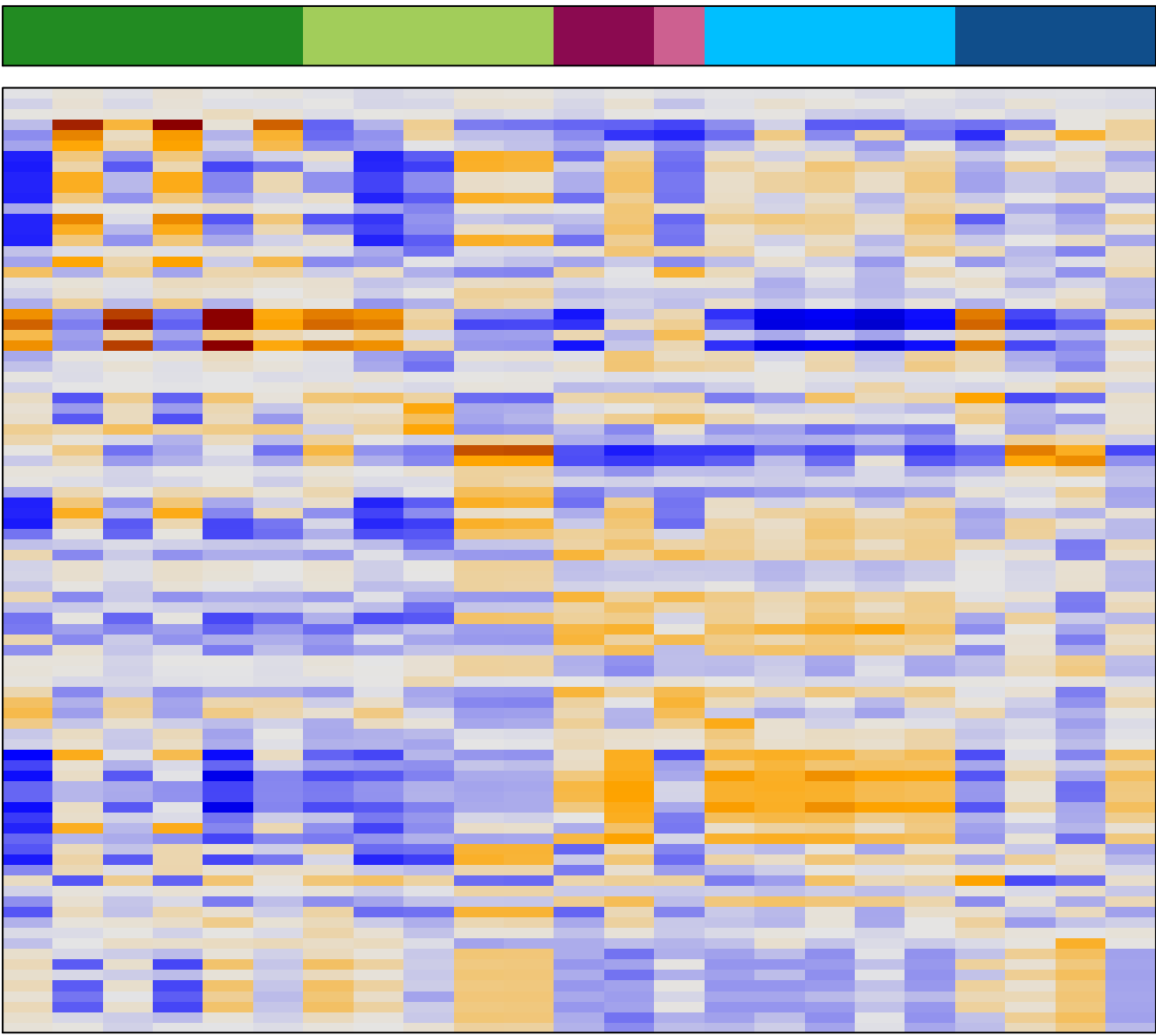
A  
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C1  
D1



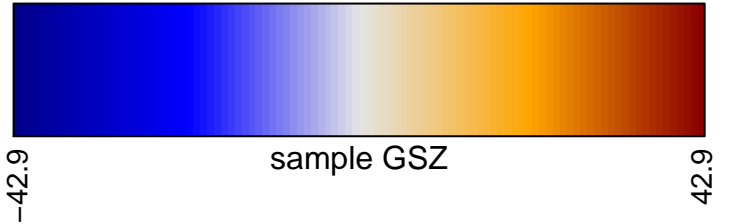
ubiquitinyl hydrolase activity, catabolic process  
 cysteine-type peptidase activity  
 WIRTH\_Immune system  
 Lembecke\_TCGA\_expr\_kmeans\_L\_CIMP.H\_UP\_Cluster4\_DN  
 Overlap\_fetal\_midbrain\_HetRpts  
 HOPB\_Txn\_elongation  
 HOPB\_Txn\_elongation\_HetRpts  
 Overlap\_fetal\_midbrain\_HetRpts  
 Tx\_Colon  
 HOPB\_Strong\_enhancer  
 TXEnhG1\_Colon  
 ZNF\_Colon  
 transcription\_DNA-templated  
 Pantrack\_CRC\_TCGA\_group.over\_C\_normal\_UP  
 ERHA\_Colon  
 Pantrack\_CRC\_TCGA\_corr\_C\_normal\_UP  
 TX\_Colon  
 respiratory,gaseous exchange  
 Lembecke\_TCGA\_expr\_kmeans\_L\_CIMP.H\_UP\_Cluster4\_DN  
 HISAO\_LIVER\_SPECIFIC\_GENES  
 SANSONI\_APC\_TARGETS\_DN  
 LIL\_PROSTATE\_CANCER\_DN  
 MIMMAMMARY\_STEM\_CELL\_UP  
 ReprPCWk\_Colon  
 WIRTH\_Nervous System  
 Ques1\_Colon  
 Overlap\_fetal\_midbrain\_HetRpts  
 Overlap\_fetal\_midbrain\_ReprPC  
 Overlap\_fetal\_midbrain\_K9K27me3  
 TssF\_Colon  
 Het\_Colon  
 Overlap\_fetal\_midbrain\_EnhP  
 TssF\_Colon  
 Overlap\_fetal\_midbrain\_K9K27me3  
 Lembecke\_Normal vs Adenoma  
 MARSON\_BOUND\_BY\_E2F4\_UNSTIMULATED  
 ReprPCWk\_Colon  
 REACTOME\_DIGESTION\_OF\_DIETARY\_CARBOHYDRATE  
 TssF\_Colon  
 Lxh1\_Colon  
 Ch10\_Colon  
 ICGC\_Er1\_targets  
 PLIADN\_BRAIN\_PCC\_NETWORK  
 Pantrack\_CRC\_TCGA\_group.over\_C\_normal\_DN  
 Hopp\_June14\_MMM1937\_tumors+controls\_group.overexpression\_D\_cell line  
 Pantrack\_CRC\_TCGA\_group.over\_C\_normal\_DN  
 KINSEY\_TARGETS\_OF\_EWSR1\_FLII\_FUSION\_UP  
 Hopp\_June14\_MMM1937\_tumors+controls\_group.overexpression\_D\_cell line  
 Overlap\_fetal\_midbrain\_ReprPCWk  
 HOPB\_Weak\_enhancer  
 Lembecke\_TCGA\_expr\_kmeans\_L\_CIMP.H\_UP\_Cluster4\_DN  
 MARSON\_BOUND\_BY\_E2F4\_UNSTIMULATED  
 Overlap\_fetal\_midbrain\_ReprPCWk  
 intracellular protein transport  
 BOQUEST\_STEM\_CELL\_DN  
 HOPB\_7\_Repressed  
 HOPB\_7\_Repressed  
 HOPB\_Poised\_promoter  
 HOPB\_7\_Repressed  
 ReprPC\_Colon



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A1  
B1  
C1  
D1



Ubiquitinyl hydrolase activity  
cysteine-type peptidase activity  
catabolic process  
Wnt1H\_Immune system  
Leb1b3\_Colon\_inflammation  
Leb1b3\_Strong enhancer  
Overlap\_fetal\_midbrain\_HetRpts  
HOXB1\_Txn\_elongation\_ReprPC  
HOXB1\_Txn\_elongation\_HetRpts  
LXN1\_Colon  
HOXB1\_Txn\_transition  
Overlap\_fetal\_midbrain\_HetRpts  
LXN1\_Colon  
LXN1\_Strong enhancer  
LXN1\_Colon  
transcription\_DNA-templated  
Pantrack\_CRC\_TCGA\_group\_C\_normal\_UP  
EMRNA\_Colon  
Pantrack\_CRC\_TCGA\_corr\_C\_normal\_UP  
LXN1\_Colon  
respiratory\_gaseous exchange  
Lembcke\_TCGA\_expr\_kmeans\_L\_CIMP.H\_UP\_Cluster4\_DN  
EMRNA\_Colon  
SANSOY\_APC\_TARGETS\_DN  
LXN1\_PROSTATE\_CANCER\_DN  
MUSKAMMARTY\_STEM\_CELL\_UP  
ReprPCwk\_Colon  
Wnt1H\_Nervous System  
Ques1\_Colon  
Overlap\_fetal\_midbrain\_HetRpts  
Overlap\_fetal\_midbrain\_ReprPC  
Overlap\_fetal\_midbrain\_K9K27me3  
TSSF\_Colon  
HetRpts\_Colon  
Overlap\_fetal\_midbrain\_EnhP  
TSSF\_Colon  
TSSA\_Colon  
Overlap\_fetal\_midbrain\_K9K27me3  
Lembcke\_Normal vs Adenoma  
MARSON\_BOUND\_BY\_E2F4\_UNSTIMULATED  
ReprPCwk\_Colon  
REACTOME\_DIGESTION\_OF\_DIETARY\_CARBOHYDRATE  
TSSF\_Colon  
LXN1\_Colon  
Chn19\_Colon  
Chn19\_Sp1\_targets  
TCGC\_EH1\_targets  
PLIAD1\_PRC4\_H3K93C\_NETWORK  
Pantrack\_CRC\_TCGA\_group.over\_C\_normal\_DN  
Linn\_June14\_MMM1937\_tumors+controls\_group.overexpression\_D\_cell line  
Pantrack\_CRC\_TCGA\_group.over\_C\_normal\_DN  
KINSEY\_TARGETS\_OF\_EWSR1\_FLII\_FUSION\_UP  
Linn\_June14\_MMM1937\_tumors+controls\_group.overexpression\_D\_cell line  
Overlap\_fetal\_midbrain\_ReprPCwk  
HOXB1\_Weak enhancer  
Lembcke\_TCGA\_expr\_kmeans\_L\_CIMP.H\_UP\_Cluster4\_DN  
MARSON\_BOUND\_BY\_E2F4\_UNSTIMULATED  
Overlap\_fetal\_midbrain\_ReprPCwk  
intercellular protein transport  
BOQUEST\_STEM\_CELL\_DN  
ReprPCwk\_Colon  
HOXB1\_Repressed  
LXN1\_Colon  
HOXB1\_Poised promoter  
HOXB1\_Repressed  
ReprPCwk\_Colon



# Correlation Clusters

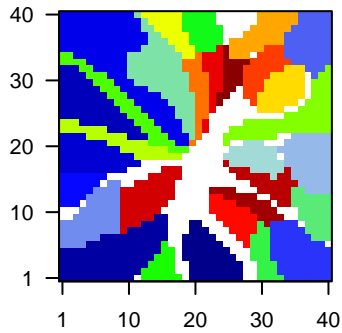
## Spot Summary: A

# metagenes = 29  
# genes = 297

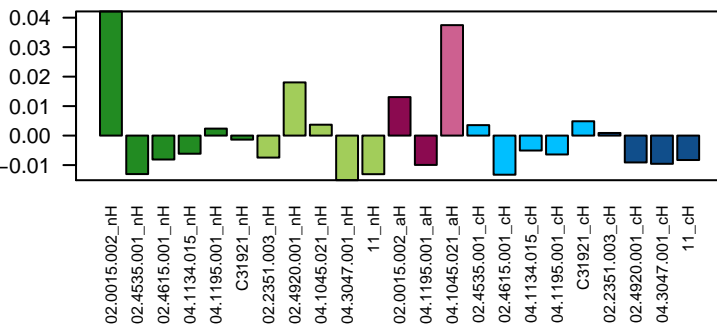
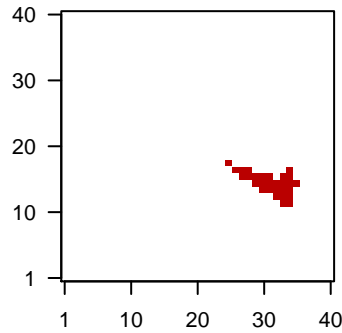
<r> metagenes = 0.94  
<r> genes = 0.46  
beta: r2= 0 / log p= -0.12

# samples with spot = 0 ( 0 %)

### Overview Map



### Spot

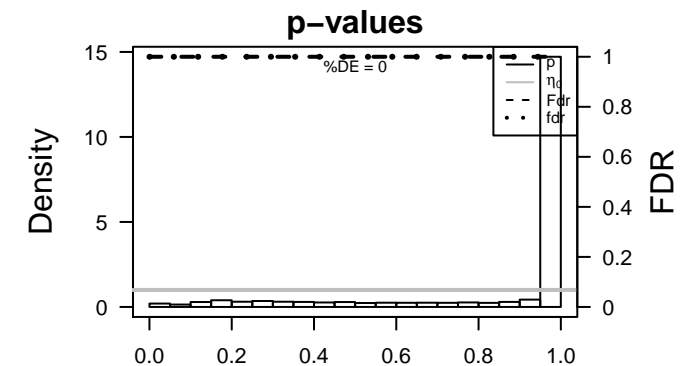


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	0.34	-0.02	0.56	
2	ENSG0000001	0.34	-0.02	0.56	CTAG1B cancer/testis antigen 1B [Source:HGNC Symbol;Acc:HGNC:2
3	ENSG0000002	0.3	-0.02	0.61	long intergenic non-protein coding RNA 955 [Source:HGNC :
4	ENSG0000001	0.23	-0.04	0.24	TNNC1 troponin C type 1 (slow) [Source:HGNC Symbol;Acc:HGNC:1
5	ENSG0000001	0.23	-0.12	0.57	ME3 malic enzyme 3, NADP(+)-dependent, mitochondrial [Source
6	ENSG0000001	0.23	-0.03	0.75	KRT12 keratin 12, type I [Source:HGNC Symbol;Acc:HGNC:6414]
7	ENSG0000001	0.18	-0.09	0.63	U2AF1L4J2 small nuclear RNA auxiliary factor 1-like 4 [Source:HGNC
8	ENSG0000002	0.18	-0.15	0.73	WAS protein family homolog 4 pseudogene [Source:HGNC S
9	ENSG0000001	0.17	-0.07	0.62	FBXO46 F-box protein 46 [Source:HGNC Symbol;Acc:HGNC:25069]
10	ENSG0000001	0.16	-0.05	0.46	OPLAH 5-oxoprolinase (ATP-hydrolysing) [Source:HGNC Symbol;Ac
11	ENSG0000001	0.16	-0.08	0.32	ZNF165 zinc finger protein 165 [Source:HGNC Symbol;Acc:HGNC:12
12	ENSG0000001	0.16	-0.09	0.52	BMP1 bone morphogenetic protein 1 [Source:HGNC Symbol;Acc:HGNC
13	ENSG0000000	0.15	-0.07	0.86	VPS9D1 VPS9 domain containing 1 [Source:HGNC Symbol;Acc:HGNC
14	ENSG0000001	0.15	-0.05	0.91	ATG4B autophagy related 4B, cysteine peptidase [Source:HGNC Syr
15	ENSG0000001	0.15	-0.05	0.64	SUPT5H suppressor of Ty 5 homolog (S. cerevisiae) [Source:HGNC S
16	ENSG0000002	0.15	-0.02	0.77	CRYBB2 crystallin, beta B2 [Source:HGNC Symbol;Acc:HGNC:2398]
17	ENSG0000002	0.14	-0.08	0.81	CDK11B cyclin-dependent kinase 11B [Source:HGNC Symbol;Acc:HC
18	ENSG0000002	0.14	-0.07	0.75	
19	ENSG0000001	0.13	-0.07	0.63	TOE1 target of EGR1, member 1 (nuclear) [Source:HGNC Symbol;f
20	ENSG0000002	0.13	-0.03	0.78	GLI4 GLI family zinc finger 4 [Source:HGNC Symbol;Acc:HGNC:4

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-15	16 / 73	MF ubiquitinyl hydrolase activity
2	1e-08	16 / 185	BP ubiquitin-dependent protein catabolic process
3	3e-07	9 / 64	MF cysteine-type peptidase activity
4	3e-06	28 / 735	Chr Chr 4
5	7e-06	8 / 69	BP regulation of proteasomal protein catabolic process
6	9e-06	8 / 71	BP protein deubiquitination
7	1e-05	9 / 97	MF cysteine-type endopeptidase activity
8	5e-05	8 / 90	MF ubiquitin-specific protease activity
9	8e-04	3 / 13	GSE/ KRISHNAN_FURIN_TARGETS_DN
10	8e-04	7 / 104	BP potassium ion transmembrane transport
11	8e-04	36 / 1425	Chr Chr 19
12	1e-03	6 / 82	GSE/ ZWANG_EGF_INTERVAL_UP
13	2e-03	6 / 91	GSE/ REACTOME_POTASSIUM_CHANNELS
14	3e-03	23 / 842	CC endoplasmic reticulum
15	3e-03	4 / 41	MF 4 iron, 4 sulfur cluster binding
16	3e-03	5 / 68	BP protein localization
17	3e-03	8 / 170	BP proteasome-mediated ubiquitin-dependent protein catabolic process
18	6e-03	22 / 847	Chr Chr 16
19	7e-03	6 / 115	GSE/ NIKOLSKY_BREAST_CANCER_16P13_AMPLICON
20	7e-03	13 / 407	GSE/ RATTENBACHER_BOUND_BY_CELF1
21	7e-03	32 / 1394	Brain Mid_Frontal_Lobe_Quies
22	7e-03	44 / 2084	Brain Mid_Frontal_Lobe_K9K27me3
23	8e-03	6 / 118	GSE/ KEGG_LYSOSOME
24	8e-03	3 / 28	GSE/ MATZUK_CENTRAL_FOR_FEMALE_FERTILITY
25	8e-03	4 / 54	CC synaptic vesicle membrane
26	9e-03	2 / 10	BP negative regulation of transcription elongation from RNA polymerase II promoter
27	9e-03	2 / 10	BP regulation of synaptic transmission, GABAergic
28	1e-02	3 / 31	MF iron-sulfur cluster binding
29	1e-02	3 / 31	GSE/ BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_DN
30	1e-02	3 / 32	BP DNA metabolic process
31	1e-02	3 / 32	GSE/ KEGG_CYSTEINE_AND_METHIONINE_METABOLISM
32	1e-02	5 / 95	BP potassium ion transport
33	1e-02	2 / 12	BP embryonic skeletal joint morphogenesis
34	1e-02	2 / 12	MF MAP kinase tyrosine/serine/threonine phosphatase activity
35	1e-02	6 / 132	MF ion channel activity
36	1e-02	3 / 35	MF carboxylic ester hydrolase activity
37	1e-02	9 / 261	GSE/ REACTOME_NEURONAL_SYSTEM
38	1e-02	2 / 13	MF endodeoxyribonuclease activity
39	1e-02	22 / 917	Glio Hopp_Sturm_GBM_Epi3_no_zentr_1_G34_DN
40	2e-02	8 / 219	GSE/ ZWANG_DOWN_BY_2ND_EGF_PULSE



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99	0.0007	124
100	0.0007	124

Geneset  
 downregulating genes meth DOWN  
 HORVATH\_age\_genes meth UP  
 TESCHENDORFF\_age\_hypermethylated

Rank	p-value	#in/all
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Geneset  
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 SKIP101\_BREAST\_CANCER\_GRADE\_1\_VS\_3\_DN  
 BDNF\_PATH\_UP  
 PanCan\_Notch\_geneset\_nanostring  
 PanCan\_VitA\_geneset\_nanostring  
 PanCan\_Winged\_survival  
 PanCan\_TGF\_beta\_geneset\_nanostring  
 PanCan\_Driver\_Gene\_geneset\_nanostring  
 PanCan\_MAPK\_geneset\_nanostring  
 PanCan\_LXMR6\_geneset\_nanostring  
 PanCan\_RAS\_geneset\_nanostring  
 Lembecke\_Normal\_vs\_Adenoma  
 PanCan\_Cancer\_Meta\_SIGNATURE  
 PanCan\_Undifferentiated\_Cancer  
 SKIP101\_BREAST\_CANCER\_GRADE\_1\_VS\_3\_UP  
 U\_BREAST\_CANCER

Rank	p-value	#in/all
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65	0.0007	124
66	0.0007	124
67	0.0007	124
68	0.0007	124
69	0.0007	124
70	0.0007	124
71	0.0007	124
72	0.0007	124
73	0.0007	124
74	0.0007	124
75	0.0007	124
76	0.0007	124
77	0.0007	124
78	0.0007	124
79	0.0007	124
80	0.0007	124
81	0.0007	124
82	0.0007	124
83	0.0007	124
84	0.0007	124
85	0.0007	124
86	0.0007	124
87	0.0007	124
88	0.0007	124
89	0.0007	124
90	0.0007	124
91	0.0007	124
92	0.0007	124
93	0.0007	124
94	0.0007	124
95	0.0007	124
96	0.0007	124
97	0.0007	124
98	0.0007	124
99	0.0007	124
100	0.0007	124

Geneset  
 Lembecke\_MMMA-expr\_kmeans\_H\_CIMP\_H\_UP\_Cluster3\_DN  
 Hewitt\_LungCancer\_secondary\_mutations\_Signal\_Transduction  
 Juehling\_HNPCC-mutated-in-5  
 TCMVST\_Color  
 TCGA\_Mutated-in-CRC\_hypermethylated  
 Lembecke\_CRC\_meth\_kmeans\_O\_CIMP\_H\_DN  
 Lembecke\_CRC\_TCGA\_corr\_N\_msi-h\_DN  
 Lembecke\_TCGA\_meth\_kmeans\_CIMP\_H\_DN  
 Lembecke\_MMMA-expr\_kmeans\_M\_CIMP\_H\_DN  
 KIP1\_Colon  
 EthA\_Colon  
 Lss\_Colon  
 Lembecke\_CRC\_TCGA\_corr\_H\_mss\_UP\_msi-h\_DN  
 LxMR6\_Colon  
 Lembecke\_TCGA\_meth\_kmeans\_B\_Cluster4\_DN  
 Marisa\_CRC-cluster-g

Rank	p-value	#in/all
1	0.0007	124
2	0.0007	124
3	0.0007	124
4	0.0007	124
5	0.0007	124
6	0.0007	124
7	0.0007	124
8	0.0007	124
9	0.0007	124
10	0.0007	124
11	0.0007	124
12	0.0007	124
13	0.0007	124
14	0.0007	124
15	0.0007	124
16	0.0007	124
17	0.0007	124
18	0.0007	124
19	0.0007	124
20	0.0007	124
21	0.0007	124
22	0.0007	124
23	0.0007	124
24	0.0007	124
25	0.0007	124
26	0.0007	124
27	0.0007	124
28	0.0007	124
29	0.0007	124
30	0.0007	124
31	0.0007	124
32	0.0007	124
33	0.0007	124
34	0.0007	124
35	0.0007	124
36	0.0007	124
37	0.0007	124
38	0.0007	124
39	0.0007	124
40	0.0007	124
41	0.0007	124
42	0.0007	124
43	0.0007	124
44	0.0007	124
45	0.0007	124
46	0.0007	124
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52	0.0007	124
53	0.0007	124
54	0.0007	124
55	0.0007	124
56	0.0007	124
57	0.0007	124
58	0.0007	124
59	0.0007	124
60	0.0007	124
61	0.0007	124
62	0.0007	124
63	0.0007	124
64	0.0007	124
65	0.0007	124
66	0.0007	124
67	0.0007	124
68	0.0007	124
69	0.0007	124
70	0.0007	124

# Correlation Clusters

## Spot Summary: B

# metagenes = 98  
# genes = 1094

<r> metagenes = 0.95

beta: r2= 0.11 / log p= -0.91

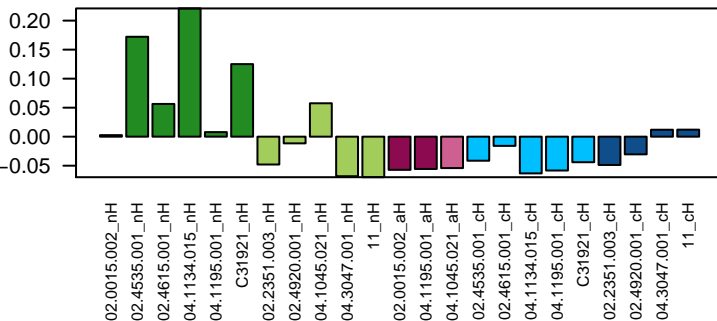
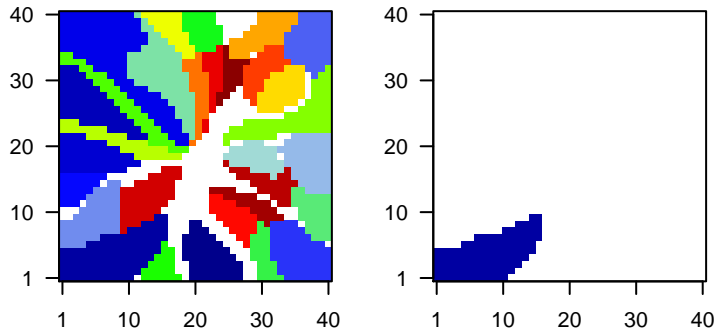
# samples with spot = 5 ( 21.7 %)

MLH1\_normHNPCC : 4 ( 66.7 %)

other\_normHNPCC : 1 ( 20 %)

### Overview Map

### Spot

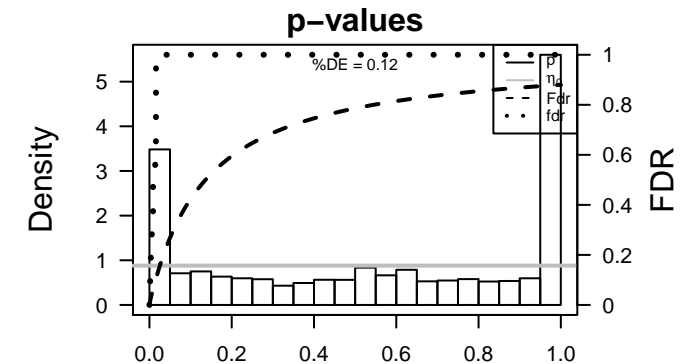


## Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	1.4	-0.53	0.81	FDCSP follicular dendritic cell secreted protein [Source:HGNC Symbc
2	ENSG0000001	1.34	-0.7	0.88	CCL21 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc
3	ENSG0000001	1.14	-0.59	0.92	CCL19 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
4	ENSG0000001	1.14	-0.52	0.91	CXCL13 chemokine (C-X-C motif) ligand 13 [Source:HGNC Symbol;f
5	ENSG0000002	1.11	-0.68	0.47	UBD ubiquitin D [Source:HGNC Symbol;Acc:HGNC:18795]
6	ENSG0000001	1.01	-0.54	0.93	CD52 CD52 molecule [Source:HGNC Symbol;Acc:HGNC:1804]
7	ENSG0000001	0.95	-0.25	0.92	CR2 complement component (3d/Epstein Barr virus) receptor 2 [Si
8	ENSG0000002	0.95	-0.72	0.5	MT-RNR2-like 2 [Source:HGNC Symbol;Acc:HGNC:37156]
9	ENSG0000001	0.93	-0.22	0.99	CCR7 chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Ac
10	ENSG0000001	0.89	-0.51	0.93	CXCR4 chemokine (C-X-C motif) receptor 4 [Source:HGNC Symbol;
11	ENSG0000001	0.85	-0.35	0.96	LCP1 lymphocyte cytosolic protein 1 (L-plastin) [Source:HGNC Syr
12	ENSG0000002	0.85	-0.8	0.45	MT-RNR2-like 9 [Source:HGNC Symbol;Acc:HGNC:37166]
13	ENSG0000001	0.85	-0.2	0.93	IL7R interleukin 7 receptor [Source:HGNC Symbol;Acc:HGNC:602
14	ENSG0000001	0.84	-0.29	0.96	MS4A1 membrane-spanning 4-domains, subfamily A, member 1 [So
15	ENSG0000001	0.83	-0.25	0.95	GIMAP7 GTPase, IMAP family member 7 [Source:HGNC Symbol;Acc:
16	ENSG0000001	0.82	-0.25	0.94	ETS1 v-ets avian erythroblastosis virus E26 oncogene homolog 1 [
17	ENSG0000001	0.82	-0.39	0.91	CD79A CD79a molecule, immunoglobulin-associated alpha [Source:
18	ENSG0000001	0.81	-0.24	0.98	FCMR Fc fragment of IgM receptor [Source:HGNC Symbol;Acc:HGNC
19	ENSG0000000	0.8	-0.2	0.98	PTPRC protein tyrosine phosphatase, receptor type, C [Source:HGNC
20	ENSG0000001	0.79	-0.35	0.97	CD53 CD53 molecule [Source:HGNC Symbol;Acc:HGNC:1686]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	237 / 427	Tissu WIRTH_Immune system
2	1e-99	226 / 574	Canci Lemboke_Colonic Inflammation
3	1e-99	781 / 7592	Lympl HOPP_Strong_enhancer
4	1e-99	393 / 844	Colon Lemboke_TCGA-expr_kmeans_E_CIMP_H_UP_Cluster4_DN
5	1e-99	182 / 436	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
6	6e-84	124 / 263	GSE/ WALLACE_PROSTATE_CANCER_RACE_UP
7	4e-77	99 / 175	GSE/ LEE_DIFFERENTIATING_T_LYMPHOCYTE
8	5e-61	101 / 246	GSE/ QI_PLASMACYTOMA_UP
9	3e-59	116 / 343	BP immune response
10	3e-53	552 / 5643	Lymp HOPP_Txn_transition
11	3e-52	122 / 435	GSE/ RODWELL_AGING_KIDNEY_UP
12	4e-52	95 / 259	GSE/ POOLA_INVASIVE_BREAST_CANCER_UP
13	3e-51	222 / 1340	GSE/ PUJANA_ATM_PCC_NETWORK
14	6e-51	87 / 220	GSE/ MCLACHLAN_DENTAL_CARIES_UP
15	4e-50	203 / 1165	GSE/ CHEN_METABOLIC_SYNDROM_NETWORK
16	1e-48	123 / 473	GSE/ ZHENG_BOUND_BY_FOXP3
17	9e-46	75 / 181	HM HALLMARK_ALLOGRAFT_REJECTION
18	1e-44	159 / 823	GSE/ REACTOME_IMMUNE_SYSTEM
19	4e-43	89 / 279	Glio WILLSCHER_GBM_Verhaak-CL & MES_up
20	1e-42	77 / 208	Tissu PALMER_B-Cell signature up
21	2e-41	77 / 215	GSE/ JAATINEN_HEMATOPOIETIC_STEM_CELL_DN
22	2e-40	75 / 210	GSE/ MCLACHLAN_DENTAL_CARIES_DN
23	9e-40	50 / 87	GSE/ BASSO_CD40_SIGNALING_UP
24	1e-39	95 / 347	Lymp WIRTH_lymphoma937_spot H
25	1e-39	291 / 2401	TF ICGC_Bcl11_targets
26	2e-39	117 / 522	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
27	2e-38	92 / 336	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_H_GC-I
28	1e-37	186 / 1215	Lymp SPANG_BCR_DN
29	2e-37	56 / 122	BP adaptive immune response
30	2e-36	89 / 332	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
31	2e-35	83 / 297	GSE/ DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_DN
32	2e-34	57 / 140	Tissu PALMER_T-Cell signature up
33	4e-34	130 / 707	BP innate immune response
34	2e-33	57 / 145	Lymp WIRTH_lymphoma937_spot F
35	2e-33	57 / 145	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_F_FL-t
36	4e-32	65 / 201	CC external side of plasma membrane
37	9e-32	45 / 92	BP T cell receptor signaling pathway
38	1e-30	34 / 51	GSE/ MORI_LARGE_PRE_BII_LYMPHOCYTE_DN
39	7e-30	37 / 64	BP T cell costimulation
40	1e-29	85 / 368	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B







# Correlation Clusters

## Spot Summary: C

# metagenes = 53  
# genes = 580

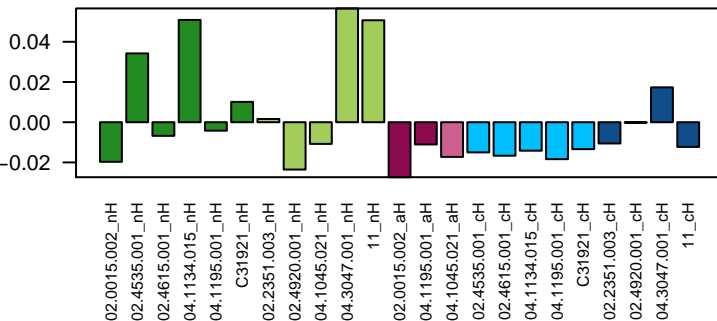
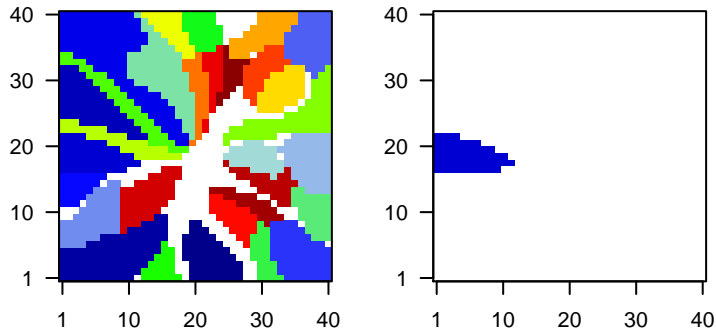
<r> metagenes = 0.94  
<r> genes = 0.6  
beta: r2= 0.01 / log p= -0.2

# samples with spot = 3 ( 13 %)

MLH1\_normHNPCC : 1 ( 16.7 %)  
other\_normHNPCC : 2 ( 40 %)

### Overview Map

### Spot

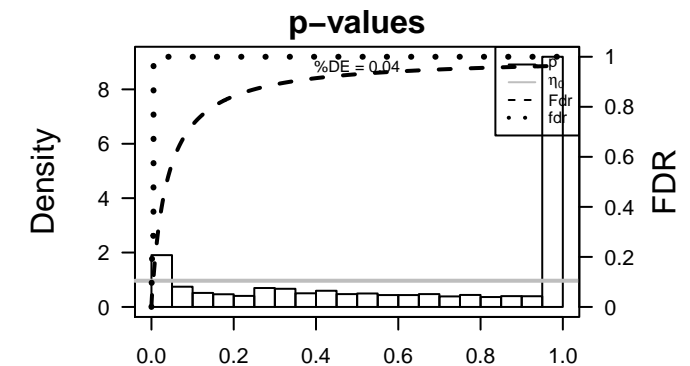


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	0.25	-0.13	0.64	TRAFD1 TRAF-type zinc finger domain containing 1 [Source:HGNC S
2	ENSG0000001	0.23	-0.09	0.87	PPP1R2 protein phosphatase 1, regulatory (inhibitor) subunit 2 [Source
3	ENSG0000002	0.21	-0.05	0.71	
4	ENSG0000002	0.2	-0.12	0.81	Iduronate 2-sulfatase (Hunter syndrome), isoform CRA_e; U
5	ENSG0000001	0.19	-0.1	0.76	KAT2B K(lysine) acetyltransferase 2B [Source:HGNC Symbol;Acc:H
6	ENSG0000001	0.18	-0.09	0.93	IL11RA interleukin 11 receptor, alpha [Source:HGNC Symbol;Acc:HG
7	ENSG0000000	0.18	-0.07	0.94	RNF216 ring finger protein 216 [Source:HGNC Symbol;Acc:HGNC:211
8	ENSG0000001	0.18	-0.1	0.88	NDNL2 necdin-like 2 [Source:HGNC Symbol;Acc:HGNC:7677]
9	ENSG0000001	0.18	-0.03	0.85	TMEM71 transmembrane protein 71 [Source:HGNC Symbol;Acc:HGNC
10	ENSG0000002	0.17	-0.12	0.9	SNRPN upstream reading frame [Source:HGNC Symbol;Acc:
11	ENSG0000001	0.17	-0.1	0.89	
12	ENSG0000001	0.17	-0.06	0.97	SATB1 SATB homeobox 1 [Source:HGNC Symbol;Acc:HGNC:10541
13	ENSG0000001	0.17	-0.08	0.86	EZH1 enhancer of zeste 1 polycomb repressive complex 2 subunit [
14	ENSG0000001	0.16	-0.08	0.83	KIAA0430 KIAA0430 [Source:HGNC Symbol;Acc:HGNC:29562]
15	ENSG0000001	0.16	-0.05	0.93	NBPF20 neuroblastoma breakpoint family, member 20 [Source:HGNC
16	ENSG0000001	0.16	-0.11	0.87	NUMA1 nuclear mitotic apparatus protein 1 [Source:HGNC Symbol;A
17	ENSG0000001	0.15	-0.06	0.85	P2RY14 purinergic receptor P2Y, G-protein coupled, 14 [Source:HGNC
18	ENSG0000001	0.15	-0.1	0.84	PKN1 protein kinase N1 [Source:HGNC Symbol;Acc:HGNC:9405]
19	ENSG0000001	0.15	-0.11	0.71	THAP11 THAP domain containing 11 [Source:HGNC Symbol;Acc:HGNC
20	ENSG0000001	0.15	-0.12	0.78	ZMAT2 zinc finger, matrin-type 2 [Source:HGNC Symbol;Acc:HGNC:

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-79	408 / 6320	Brain Overlap_fetal_midbrain_HetRpts
2	6e-57	485 / 10239	Brain Overlap_fetal_midbrain_ReprPC
3	1e-56	410 / 7491	Lymph HOPP_Txn_elongation
4	1e-50	456 / 9470	Colon Quies3_Colon
5	6e-49	451 / 9390	Colon TxWk_Colon
6	3e-45	416 / 8358	Lymph HOPP_Active_promoter
7	4e-44	466 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
8	1e-43	456 / 9930	Colon Tx_Colon
9	3e-40	450 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
10	2e-35	455 / 10475	Colon TssA_Colon
11	2e-34	308 / 5643	Lymph HOPP_Txn_transition
12	4e-34	461 / 10800	Brain Overlap_fetal_midbrain_Quies
13	1e-29	481 / 11968	Colon TssWk_Colon
14	1e-24	87 / 834	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
15	2e-23	362 / 8147	Lymph HOPP_Weak_promoter
16	3e-20	127 / 1807	BP transcription, DNA-templated
17	2e-19	59 / 500	Lymph WIRTH_lymphoma937_spot J
18	2e-18	94 / 1178	Colon ZNF_Colon
19	4e-18	56 / 484	Lymph Hopp_June14_MMM1L937_tumors+controls_group.overexpression_J_GC-E
20	2e-17	289 / 6389	Lymph HOPP_Weak_txn
21	3e-17	248 / 5173	TF ICGC_Taf1_targets
22	6e-17	326 / 7592	Lymph HOPP_Strong_enhancer
23	1e-16	53 / 471	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
24	2e-15	116 / 1803	MF DNA binding
25	5e-15	85 / 1134	MF nucleic acid binding
26	5e-15	115 / 1808	BP regulation of transcription, DNA-templated
27	8e-15	145 / 2554	CC nucleoplasm
28	3e-14	109 / 1713	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
29	2e-13	45 / 420	GSE/ SHEN_SMARCA2_TARGETS_UP
30	2e-13	61 / 712	Brain Overlap_fetal_midbrain_EnhP
31	2e-13	233 / 5101	CC nucleus
32	9e-13	209 / 4470	TF ICGC_Creb1_targets
33	1e-12	37 / 311	GSE/ DAZARD_RESPONSE_TO_UV_NHEK_DN
34	2e-11	266 / 6324	TF ICGC_Yy1_targets
35	4e-11	114 / 2040	MF metal ion binding
36	8e-11	219 / 4969	TF ICGC_Atf2_targets
37	1e-10	278 / 6784	Lymph HOPP_Weak_enhancer
38	1e-10	55 / 705	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_UP
39	1e-10	237 / 5526	TF ICGC_Pmlsc71910_targets
40	1e-10	58 / 773	GSE/ LASTOWSKA_NEUROBLASTOMA_COPY_NUMBER_DN





# Correlation Clusters

## Spot Summary: D

# metagenes = 25  
# genes = 314

<r> metagenes = 0.97

<r> genes = 0.53

beta: r2= 0.02 / log p= -0.31

# samples with spot = 1 ( 4.3 %)

MLH1\_normHNPCC : 1 ( 16.7 %)

## Spot Genelist

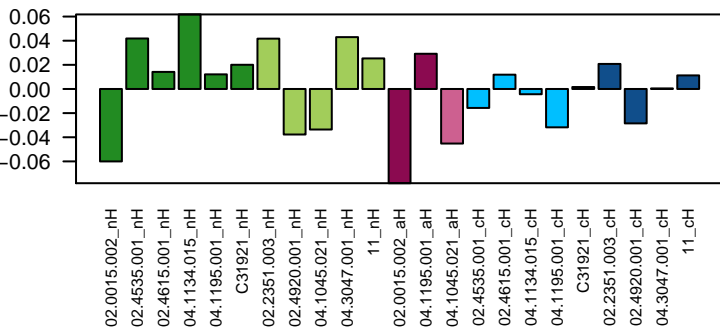
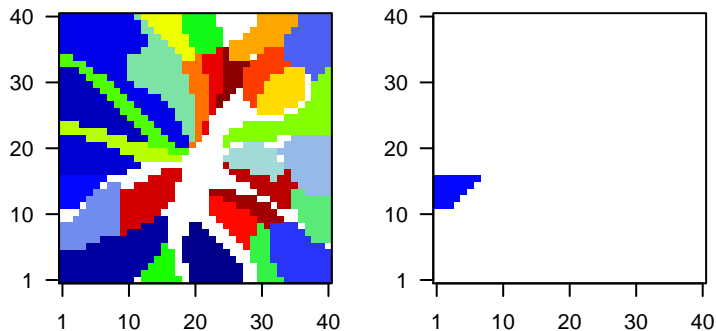
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG000000	0.5	-0.11	0.52	RAB27A RAB27A, member RAS oncogene family [Source:HGNC Sym
2	ENSG0000001	0.37	-0.23	0.53	CCNG1 cyclin G1 [Source:HGNC Symbol;Acc:HGNC:1592]
3	ENSG0000001	0.33	-0.34	0.63	
4	ENSG0000001	0.27	-0.1	0.32	PARP9 poly (ADP-ribose) polymerase family, member 9 [Source:HGI
5	ENSG0000002	0.25	-0.18	0.54	
6	ENSG0000001	0.23	-0.1	0.63	SH3D19 SH3 domain containing 19 [Source:HGNC Symbol;Acc:HGNC:
7	ENSG0000001	0.23	-0.07	0.73	PRRC2Cproline-rich coiled-coil 2C [Source:HGNC Symbol;Acc:HGNC
8	ENSG0000002	0.22	-0.16	0.69	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:F5f
9	ENSG0000000	0.22	-0.16	0.85	MAT2B methionine adenosyltransferase II, beta [Source:HGNC Synt
10	ENSG0000001	0.21	-0.24	0.57	CALM3 calmodulin 3 (phosphorylase kinase, delta) [Source:HGNC S
11	ENSG0000001	0.2	-0.14	0.59	ZNF664 zinc finger protein 664 [Source:HGNC Symbol;Acc:HGNC:25
12	ENSG0000001	0.2	-0.21	0.68	YWHAZ tyrosine 3-monooxygenase/tryptophan 5-monooxygenase ar
13	ENSG0000001	0.2	-0.27	0.66	H3F3A H3 histone, family 3A [Source:HGNC Symbol;Acc:HGNC:476
14	ENSG0000001	0.2	-0.24	0.61	PRDX3 peroxiredoxin 3 [Source:HGNC Symbol;Acc:HGNC:9354]
15	ENSG0000002	0.19	-0.28	0.86	
16	ENSG0000000	0.19	-0.23	0.65	BZW1 basic leucine zipper and W2 domains 1 [Source:HGNC Symb
17	ENSG0000001	0.19	-0.13	0.78	RPS6KA3ribosomal protein S6 kinase, 90kDa, polypeptide 3 [Source:H
18	ENSG0000001	0.19	-0.2	0.66	TMED7 transmembrane emp24 protein transport domain containing 7
19	ENSG0000001	0.18	-0.07	0.73	UPF2 UPF2 regulator of nonsense transcripts homolog (yeast) [Sou
20	ENSG0000001	0.17	-0.13	0.66	ACBD3 acyl-CoA binding domain containing 3 [Source:HGNC Symb

## Geneset Overrepresentation

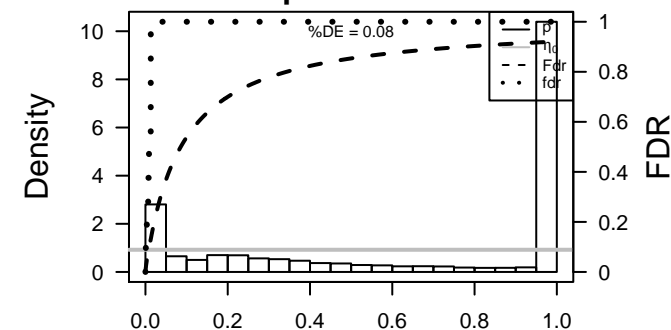
Rank	p-value	#in/all	Geneset
1	3e-58	257 / 7491	Lymp HOPP_Txn_elongation
2	2e-54	234 / 6320	Brain Overlap_fetal_midbrain_HetRpts
3	2e-51	275 / 9390	Colon TxWk_Colon
4	2e-49	216 / 5643	Lymp HOPP_Txn_transition
5	8e-49	282 / 10239	Brain Overlap_fetal_midbrain_ReprPC
6	2e-48	278 / 9930	Colon Tx_Colon
7	5e-39	246 / 8358	Lymp HOPP_Active_promoter
8	7e-36	270 / 10475	Colon TssA_Colon
9	9e-36	257 / 9470	Colon Quies3_Colon
10	1e-27	251 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
11	1e-27	66 / 834	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
12	2e-26	254 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
13	1e-20	251 / 10800	Brain Overlap_fetal_midbrain_Quies
14	2e-20	47 / 568	GSE/ HAMAL_APOPTOSIS_VIA_TRAIL_UP
15	3e-20	104 / 2554	CC nucleoplasm
16	3e-19	209 / 8147	Lymp HOPP_Weak_promoter
17	8e-19	70 / 1340	GSE/ PUJANA_ATM_PCC_NETWORK
18	7e-18	48 / 685	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
19	1e-17	41 / 503	GSE/ MILL_PSEUDOPODIA_HAPTOTAXIS_UP
20	2e-17	83 / 1914	GSE/ PILON_KLF1_TARGETS_DN
21	4e-17	37 / 420	GSE/ SHEN_SMARCA2_TARGETS_UP
22	5e-17	39 / 471	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
23	2e-16	72 / 1563	GSE/ PUJANA_BRCA1_PCC_NETWORK
24	6e-16	34 / 381	miRN hsa-miR-144
25	7e-16	257 / 11968	Color TssWk_Colon
26	1e-15	65 / 1352	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
27	5e-15	146 / 5101	CC nucleus
28	8e-15	33 / 391	miRN hsa-miR-454
29	8e-15	35 / 442	miRN hsa-miR-548n
30	2e-14	43 / 683	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_UP
31	2e-14	38 / 539	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP
32	3e-14	32 / 383	GSE/ OSMAN_BLADDER_CANCER_UP
33	3e-14	188 / 7592	Lymp HOPP_Strong_enhancer
34	1e-13	35 / 480	miRN hsa-miR-301a
35	1e-13	26 / 260	miRN hsa-miR-548l
36	2e-13	27 / 286	GSE/ GABRIELY_MIR21_TARGETS
37	5e-13	22 / 189	miRN hsa-miR-1283
38	6e-13	27 / 300	GSE/ BORCZUK_MALIGNANT_MESOTHELIOMA_UP
39	7e-13	27 / 303	miRN hsa-miR-561
40	1e-12	28 / 334	miRN hsa-miR-590-3p

### Overview Map

### Spot



### p-values





# Correlation Clusters

## Spot Summary: E

# metagenes = 57  
# genes = 617

<r> metagenes = 0.94  
<r> genes = 0.58  
beta: r2= 0.05 / log p= -0.51

# samples with spot = 4 ( 17.4 %)  
MLH1\_normHNPCC : 3 ( 50 %)  
other\_cancerHNPCC : 1 ( 25 %)

## Spot Genelist

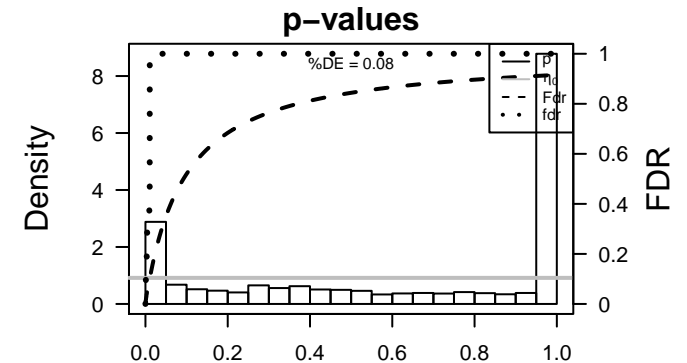
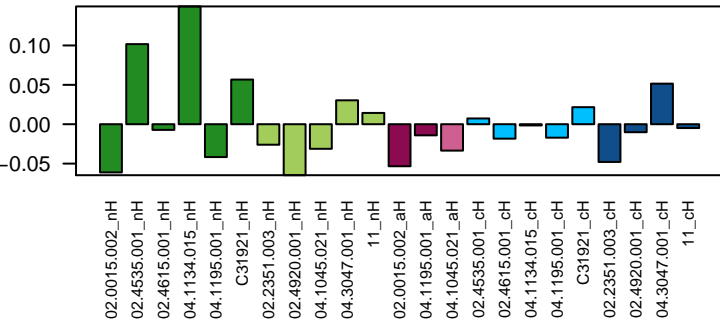
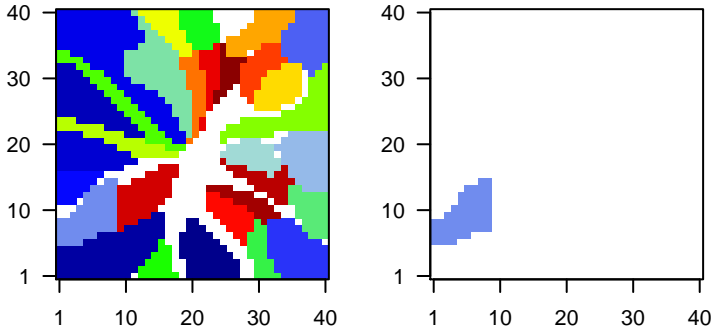
Rank	ID	max e	r	min e	Description
1	ENSG00000001	0.54	-0.37	0.7	BHLHE40 basic helix-loop-helix family, member e40 [Source:HGNC Sy
2	ENSG00000002	0.52	-0.34	0.61	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:M0
3	ENSG00000002	0.51	-0.35	0.9	
4	ENSG00000001	0.49	-0.2	0.78	ARGLU1 arginine and glutamate rich 1 [Source:HGNC Symbol;Acc:HG
5	ENSG00000001	0.48	-0.24	0.85	GOLGA8 golgin A8 family, member A [Source:HGNC Symbol;Acc:HGN
6	ENSG00000001	0.46	-0.28	0.9	
7	ENSG00000002	0.46	-0.19	0.92	GOLGA8 golgin A8 family, member B [Source:HGNC Symbol;Acc:HGN
8	ENSG00000001	0.44	-0.23	0.44	STAT1 signal transducer and activator of transcription 1, 91kDa [Sou
9	ENSG00000002	0.42	-0.33	0.91	
10	ENSG00000001	0.4	-0.43	0.74	PABPC3 poly(A) binding protein, cytoplasmic 3 [Source:HGNC Symbol
11	ENSG00000002	0.4	-0.28	0.92	
12	ENSG00000001	0.39	-0.24	0.74	HIF1A hypoxia inducible factor 1, alpha subunit (basic helix-loop-he
13	ENSG00000001	0.39	-0.34	0.74	TMEM123 transmembrane protein 123 [Source:HGNC Symbol;Acc:HGN
14	ENSG00000001	0.39	-0.21	0.92	HNRNP11 heterogeneous nuclear ribonucleoprotein H1 (H) [Source:HGI
15	ENSG00000002	0.38	-0.2	0.77	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H3I
16	ENSG00000001	0.37	-0.22	0.56	RPS15A ribosomal protein S15a [Source:HGNC Symbol;Acc:HGNC:1I
17	ENSG00000001	0.37	-0.08	0.91	SLFN5 schlafen family member 5 [Source:HGNC Symbol;Acc:HGNC
18	ENSG00000000	0.36	-0.15	0.46	FKBP5 FK506 binding protein 5 [Source:HGNC Symbol;Acc:HGNC:3
19	ENSG00000001	0.36	-0.09	0.78	LPAR6 lysophosphatidic acid receptor 6 [Source:HGNC Symbol;Acc:
20	ENSG00000001	0.36	-0.26	0.88	HNRNPDI heterogeneous nuclear ribonucleoprotein D-like [Source:HGI

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-86	406 / 5643	LympI HOPP_Txn_transition
2	3e-74	450 / 7491	LympI HOPP_Txn_elongation
3	1e-72	410 / 6320	Brain Overlap_fetal_midbrain_HetRpts
4	5e-68	509 / 9930	Colon Tx_Colon
5	3e-60	484 / 9390	Colon TxWk_Colon
6	6e-59	510 / 10475	Colon TssA_Colon
7	4e-55	148 / 1091	MF poly(A) RNA binding
8	8e-55	498 / 10239	Brain Overlap_fetal_midbrain_ReprPC
9	2e-48	435 / 8358	LympI HOPP_Active_promoter
10	8e-48	218 / 2554	CC nucleoplasm
11	8e-47	93 / 484	LympI Hopp_June14_MMML937_tumors+controls_group.overexpression_J_GC-E
12	2e-46	94 / 500	LympI WIRTH_lymphoma937_spot J
13	2e-46	476 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
14	3e-45	320 / 5101	CC nucleus
15	2e-38	140 / 1340	GSE/ PUJANA_ATM_PCC_NETWORK
16	6e-32	118 / 1134	MF nucleic acid binding
17	2e-27	367 / 7592	LympI HOPP_Strong_enhancer
18	1e-26	132 / 1563	GSE/ PUJANA_BRCA1_PCC_NETWORK
19	7e-25	378 / 8147	LympI HOPP_Weak_promoter
20	1e-24	42 / 182	BP mRNA splicing, via spliceosome
21	1e-24	90 / 855	Brain Overlap_fetal_midbrain_ZNF
22	2e-24	47 / 237	BP RNA splicing
23	8e-23	413 / 9470	Colon Quies3_Colon
24	3e-22	135 / 1807	BP transcription, DNA-templated
25	3e-22	450 / 10800	Brain Overlap_fetal_midbrain_Quies
26	5e-22	56 / 385	MF nucleotide binding
27	5e-21	38 / 180	CC nuclear speck
28	5e-21	132 / 1803	MF DNA binding
29	7e-21	35 / 151	GSE/ REACTOME_MRNA_PROCESSING
30	1e-20	63 / 513	MF RNA binding
31	1e-20	478 / 11968	Colon TssWk_Colon
32	1e-20	33 / 134	GSE/ REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE
33	9e-20	80 / 820	BP gene expression
34	9e-20	29 / 105	GSE/ REACTOME_MRNA_SPLICING
35	3e-19	148 / 2253	Glio Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
36	6e-19	36 / 183	BP mRNA processing
37	4e-18	34 / 170	GSE/ JISON_SICKLE_CELL_DISEASE_DN
38	2e-17	35 / 191	Brain Overlap_fetal_midbrain_Het
39	1e-16	118 / 1713	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN
40	7e-16	36 / 225	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_UP

### Overview Map

### Spot



Rank	p-value	#in/all	Geneset
1	0.000000	124	aging_enriching_genes_meth_DOWN
2	0.000000	124	HORVAILT_aging_genes_meth_UP
3	0.000000	124	TESCHENDORFF_age_hypermethylated
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100	0.000000	124	

Rank	p-value	#in/all	Geneset
1	0.000000	23	GENIES_modul14
2	0.000000	23	COMMON_CANCER_GENES
3	0.000000	24	SOTIOT_BREAST_CANCER_GRADE_1_VS_3_DN
4	0.000000	24	Geneset_nanostring
5	0.000000	24	KUIPER_MM_poor_survival
6	0.000000	24	SPANG_LTS_index2
7	0.000000	24	SPANG_EC_DN
8	0.000000	24	GENIES_modul1
9	0.000000	24	GENIES_modul2
10	0.000000	24	LIU_PROSTATE_CANCER_UP
11	0.000000	24	GENIES_modul12
12	0.000000	24	LIU_BREAST_CANCER
13	0.000000	24	SPANG_ORAL_UP
14	0.000000	24	SPANG_ERL_UP
15	0.000000	24	
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Rank	p-value	#in/all	Geneset
1	0.000000	9890	LXVK_Colon
2	0.000000	10475	ISSA_Colon
3	0.000000	9470	Quirk_Colon
4	0.000000	21238	ESM_Colon_CRC_TCGA_group_over_C_normal_DN
5	0.000000	7122	LXVK_Colon
6	0.000000	9301	Enrichment_CRC_TCGA_corr_R_normal_DN
7	0.000000	67611	ISS2_Colon
8	0.000000	178	Marsa_Colon_cluster-c
9	0.000000	5890	Enrichment_CRC
10	0.000000	7779	LXVK_Colon
11	0.000000	76	Marsa_CRC_cluster-g
12	0.000000	332	Enrichment_CRC_TCGA_corr_msi-h_UP_mss_DN
13	0.000000	2710	KIM_CRC_MSI-regulated_DN
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Rank	p-value	#in/all	Geneset
1	0.000000	1563	BLVANT_BCRNA_NETWORK
2	0.000000	1563	BLVANT_BCRNA_NETWORK
3	0.000000	1563	BLVANT_BCRNA_NETWORK
4	0.000000	1563	BLVANT_BCRNA_NETWORK
5	0.000000	1563	BLVANT_BCRNA_NETWORK
6	0.000000	1563	BLVANT_BCRNA_NETWORK
7	0.000000	1563	BLVANT_BCRNA_NETWORK
8	0.000000	1563	BLVANT_BCRNA_NETWORK
9	0.000000	1563	BLVANT_BCRNA_NETWORK
10	0.000000	1563	BLVANT_BCRNA_NETWORK
11	0.000000	1563	BLVANT_BCRNA_NETWORK
12	0.000000	1563	BLVANT_BCRNA_NETWORK
13	0.000000	1563	BLVANT_BCRNA_NETWORK
14	0.000000	1563	BLVANT_BCRNA_NETWORK
15	0.000000	1563	BLVANT_BCRNA_NETWORK
16	0.000000	1563	BLVANT_BCRNA_NETWORK
17	0.000000	1563	BLVANT_BCRNA_NETWORK
18	0.000000	1563	BLVANT_BCRNA_NETWORK
19	0.000000	1563	BLVANT_BCRNA_NETWORK
20	0.000000	1563	BLVANT_BCRNA_NETWORK
21	0.000000	1563	BLVANT_BCRNA_NETWORK
22	0.000000	1563	BLVANT_BCRNA_NETWORK
23	0.000000	1563	BLVANT_BCRNA_NETWORK
24	0.000000	1563	BLVANT_BCRNA_NETWORK
25	0.000000	1563	BLVANT_BCRNA_NETWORK

# Correlation Clusters

## Spot Summary: F

# metagenes = 21  
# genes = 186

<r> metagenes = 0.94  
<r> genes = 0.4  
beta: r2= 0.01 / log p= -0.2

# samples with spot = 1 ( 4.3 %)  
MLH1\_normHNPCC : 1 ( 16.7 %)

## Spot Genelist

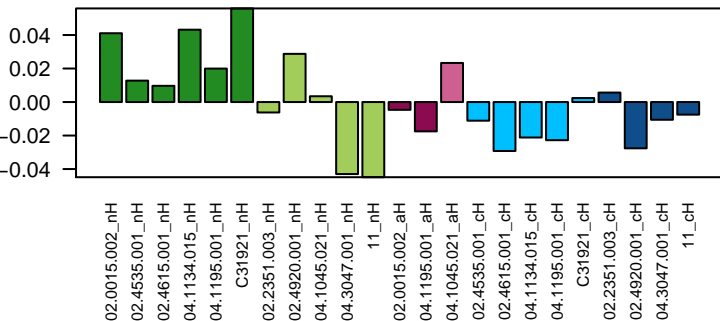
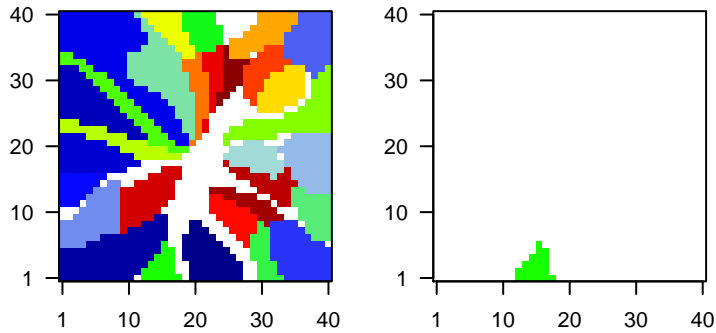
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	0.46	-0.14	0.64	CENPT centromere protein T [Source:HGNC Symbol;Acc:HGNC:257]
2	ENSG0000001	0.37	-0.11	0.41	
3	ENSG0000001	0.35	-0.07	0.5	ABCC5 ATP-binding cassette, sub-family C (CFTR/MRP), member 5
4	ENSG0000001	0.31	-0.14	0.43	LDLR low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:257]
5	ENSG0000000	0.27	-0.02	0.38	DDX3Y DEAD (Asp-Glu-Ala-Asp) box helicase 3, Y-linked [Source:HGNC Symbol;Acc:HGNC:257]
6	ENSG0000000	0.27	-0.02	0.44	KDM5D lysine (K)-specific demethylase 5D [Source:HGNC Symbol;Acc:HGNC:257]
7	ENSG0000001	0.26	-0.1	0.57	PLEC plectin [Source:HGNC Symbol;Acc:HGNC:9069]
8	ENSG0000002	0.22	-0.09	0.71	SAP25 Sin3A-associated protein, 25kDa [Source:HGNC Symbol;Acc:HGNC:257]
9	ENSG0000001	0.21	-0.19	0.74	TNFRSF14 tumor necrosis factor receptor superfamily, member 14 [Source:HGNC Symbol;Acc:HGNC:257]
10	ENSG0000002	0.21	-0.11	0.46	PPP1R10 protein phosphatase 1, regulatory subunit 10 [Source:HGNC Symbol;Acc:HGNC:257]
11	ENSG0000001	0.2	-0.08	0.51	FAM43A family with sequence similarity 43, member A [Source:HGNC Symbol;Acc:HGNC:257]
12	ENSG0000001	0.19	-0.08	0.53	NPIPB6 nuclear pore complex interacting protein family, member B6 [Source:HGNC Symbol;Acc:HGNC:257]
13	ENSG0000002	0.19	-0.23	0.73	AP1G2 adaptor-related protein complex 1, gamma 2 subunit [Source:HGNC Symbol;Acc:HGNC:257]
14	ENSG0000000	0.19	-0.07	0.6	UNC13D unc-13 homolog D (C. elegans) [Source:HGNC Symbol;Acc:HGNC:257]
15	ENSG0000001	0.19	-0.13	0.7	TRIM25 tripartite motif containing 25 [Source:HGNC Symbol;Acc:HGNC:257]
16	ENSG0000001	0.18	-0.12	0.47	FOXO3 forkhead box O3 [Source:HGNC Symbol;Acc:HGNC:3821]
17	ENSG0000001	0.18	-0.14	0.68	RSRP1 arginine/serine-rich protein 1 [Source:HGNC Symbol;Acc:HGNC:257]
18	ENSG0000001	0.18	-0.16	0.62	TCIRG1 T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal [Source:HGNC Symbol;Acc:HGNC:257]
19	ENSGR000001	0.18	-0.05	0.64	
20	ENSG0000001	0.18	-0.14	0.45	STK38 serine/threonine kinase 38 [Source:HGNC Symbol;Acc:HGNC:257]

## Geneset Overrepresentation

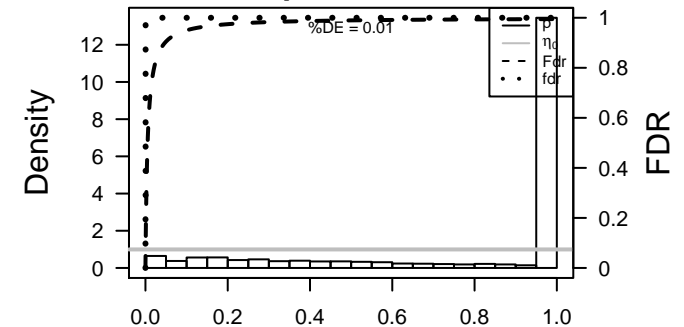
Rank	p-value	#in/all	Geneset
1	1e-13	143 / 9930	Colon Tx_Colon
2	4e-13	121 / 7592	Lymph HOPE_Strong_enhancer
3	7e-13	70 / 3122	Colon TxEnhG1_Colon
4	1e-11	144 / 10475	Colon TssA_Colon
5	2e-11	97 / 5643	Lymph HOPE_Txn_transition
6	6e-11	133 / 9390	Colon TxWk_Colon
7	8e-11	121 / 8123	Colon TssF_Colon
8	1e-08	61 / 3112	Colon EnhA_Colon
9	2e-07	77 / 4714	TF ICGC_Pu1_targets
10	2e-07	145 / 11791	Colon Enh_Colon
11	4e-07	19 / 500	Lymph WIRTH_lymphoma937_spot J
12	5e-07	128 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
13	7e-07	84 / 5512	TF ICGC_Nficsc81335_targets
14	8e-07	80 / 5173	TF ICGC_Taf1_targets
15	9e-07	135 / 10800	Brain Overlap_fetal_midbrain_Quies
16	9e-07	104 / 7491	Lymph HOPE_Txn_elongation
17	1e-06	59 / 3370	Brain Mid_Frontal_Lobe_ZNF
18	1e-06	87 / 5889	Colon EnhWk1_Colon
19	2e-06	43 / 2149	TF ICGC_Mef2_targets
20	2e-06	71 / 4470	TF ICGC_Creb1_targets
21	4e-06	17 / 484	Lymph Hopp_June14_MMML937_tumors+controls_group.overexpression_J_GC-E
22	8e-06	80 / 5453	TF ICGC_Foxm1_targets
23	9e-06	89 / 6320	Brain Overlap_fetal_midbrain_HetRpts
24	1e-05	81 / 5578	TF ICGC_Stat5_targets
25	1e-05	93 / 6761	Colon TssD2_Colon
26	1e-05	94 / 6862	TF ICGC_Elf1_targets
27	1e-05	80 / 5526	TF ICGC_Pmlsc71910_targets
28	1e-05	48 / 2719	TF ICGC_Pbx3_targets
29	1e-05	55 / 3305	TF ICGC_BatPcr1_targets
30	2e-05	88 / 6313	TF ICGC_Pou2_targets
31	2e-05	97 / 7202	TF ICGC_Runx3_targets
32	2e-05	53 / 3177	TF ICGC_Irf4_targets
33	3e-05	37 / 1914	GSEA/ PILON_KLF1_TARGETS_DN
34	3e-05	13 / 347	Lymph WIRTH_lymphoma937_spot H
35	4e-05	68 / 4566	TF ICGC_Egr1_targets
36	4e-05	76 / 5308	TF ICGC_Tcf12_targets
37	5e-05	72 / 4969	TF ICGC_Atf2_targets
38	5e-05	83 / 6005	TF ICGC_Mta3_targets
39	6e-05	78 / 5552	TF ICGC_Pol24_targets
40	9e-05	63 / 4230	TF ICGC_Nfatc1_targets

### Overview Map

### Spot



### p-values







# Correlation Clusters

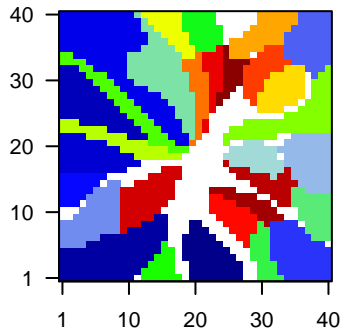
## Spot Summary: G

# metagenes = 52  
# genes = 532

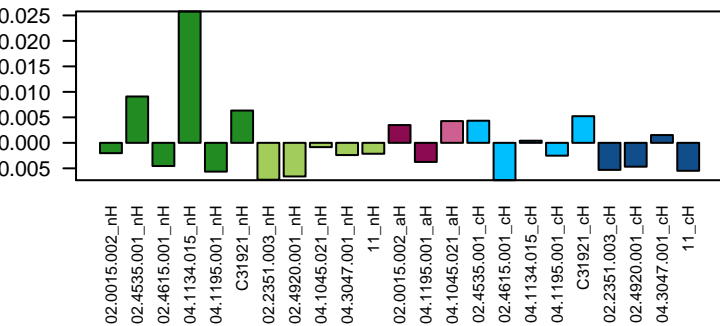
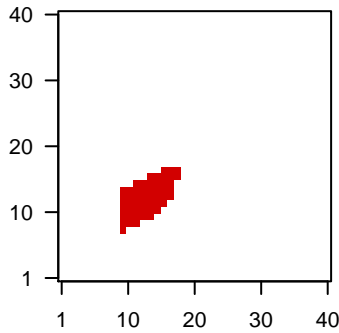
<r> metagenes = 0.95  
<r> genes = 0.43  
beta: r2= 0 / log p= -0.06

# samples with spot = 0 ( 0 %)

Overview Map



Spot

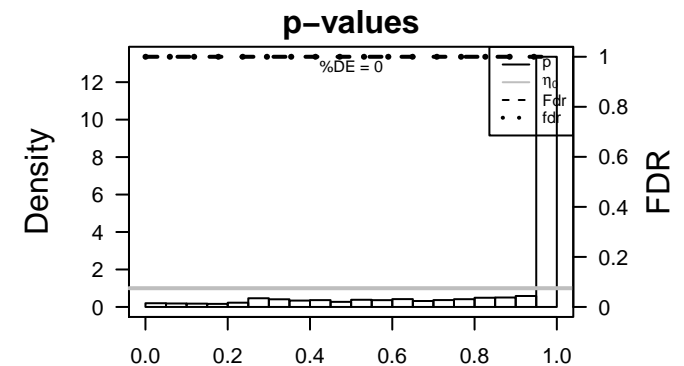


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG000001	0.16	-0.06	0.55	TAZ tafazzin [Source:HGNC Symbol;Acc:HGNC:11577]
2	ENSG000000	0.11	-0.07	0.62	DHPS deoxyhypusine synthase [Source:HGNC Symbol;Acc:HGNC:]
3	ENSG000002	0.11	-0.04	0.64	KMT2B lysine (K)-specific methyltransferase 2B [Source:HGNC Syml
4	ENSG000001	0.11	-0.05	0.34	TBC1D17TBC1 domain family, member 17 [Source:HGNC Symbol;Acc
5	ENSG000001	0.11	-0.04	0.82	ZBTB24 zinc finger and BTB domain containing 24 [Source:HGNC Syr
6	ENSG000000	0.1	-0.04	0.58	GRIPAP1GRIP1 associated protein 1 [Source:HGNC Symbol;Acc:HGN
7	ENSG000001	0.1	-0.05	0.63	AKAP8 A kinase (PRKA) anchor protein 8 [Source:HGNC Symbol;Ac
8	ENSG000001	0.1	-0.07	0.39	GGT7 gamma-glutamyltransferase 7 [Source:HGNC Symbol;Acc:Hi
9	ENSG000002	0.09	-0.01	0.76	
10	ENSG000001	0.09	-0.06	0.6	CCAR2 cell cycle and apoptosis regulator 2 [Source:HGNC Symbol;A
11	ENSG000002	0.09	-0.05	0.6	VPS52 vacuolar protein sorting 52 homolog (S. cerevisiae) [Source:-
12	ENSG000001	0.09	-0.05	0.75	FAM104Afamily with sequence similarity 104, member A [Source:HGNC
13	ENSG000001	0.09	-0.06	0.76	EIF2B5 eukaryotic translation initiation factor 2B, subunit 5 epsilon, &
14	ENSG000002	0.09	-0.04	0.66	
15	ENSG000001	0.09	-0.05	0.73	THEM4 thioesterase superfamily member 4 [Source:HGNC Symbol;A
16	ENSG000001	0.09	-0.04	0.58	CBLB Cbl proto-oncogene B, E3 ubiquitin protein ligase [Source:HC
17	ENSG000001	0.09	-0.14	0.41	CD2BP2 CD2 (cytoplasmic tail) binding protein 2 [Source:HGNC Symb
18	ENSG000001	0.08	-0.01	0.24	USP9Y ubiquitin specific peptidase 9, Y-linked [Source:HGNC Symb
19	ENSG000001	0.08	-0.05	0.71	PPP6R2 protein phosphatase 6, regulatory subunit 2 [Source:HGNC S
20	ENSG000001	0.08	-0.04	0.82	ANKRD130kyrin repeat domain 13 family, member D [Source:HGNC S

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-11	72 / 1178	Colon ZNF_Colon
2	1e-10	92 / 1753	Colon Het_Colon
3	5e-10	92 / 1807	BP transcription, DNA-templated
4	3e-09	90 / 1808	BP regulation of transcription, DNA-templated
5	5e-09	70 / 1281	Colon HetRpts_Colon
6	7e-09	64 / 1134	MF nucleic acid binding
7	2e-08	46 / 712	Brain Overlap_fetal_midbrain_EnhP
8	6e-08	36 / 500	LympL WIRTH_lymphoma937_spot J
9	2e-07	34 / 484	LympL Hopp_June14_MMML937 tumors+controls_group.overexpression_U_GC-E
10	2e-06	88 / 2040	MF metal ion binding
11	2e-06	25 / 329	GSE/ REACTOME_GENERIC_TRANSCRIPTION_PATHWAY
12	3e-06	55 / 1084	Brain Overlap_fetal_midbrain_EnhG
13	4e-05	47 / 962	MF transcription factor activity, sequence-specific DNA binding
14	9e-05	74 / 1803	MF DNA binding
15	2e-04	55 / 1279	Brain Overlap_fetal_midbrain_Enh
16	3e-04	13 / 159	GSE/ FIGUEROA_AML_METHYLATION_CLUSTER_3_UP
17	4e-04	4 / 14	MF bitter taste receptor activity
18	6e-04	64 / 1604	CC intracellular
19	6e-04	3 / 7	GSE/ RUNNE_GENDER_EFFECT_UP
20	6e-04	5 / 27	BP detection of chemical stimulus involved in sensory perception of bitter taste
21	7e-04	58 / 1425	Chr Chr 19
22	2e-03	6 / 51	MF voltage-gated potassium channel activity
23	3e-03	3 / 11	BP histone H3-K4 trimethylation
24	3e-03	3 / 11	BP phosphorelay signal transduction system
25	3e-03	13 / 202	Tissu WIRTH_Testis
26	3e-03	9 / 114	GSE/ FIGUEROA_AML_METHYLATION_CLUSTER_1_UP
27	3e-03	5 / 39	GSE/ REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS
28	5e-03	3 / 14	BP regulation of DNA-templated transcription, elongation
29	6e-03	7 / 81	Glio GIEZELT_GBM_MGMTmethyl_down_VS_nonmethyl
30	6e-03	13 / 219	GSE/ ZWANG_DOWN_BY_2ND_EGF_PULSE
31	6e-03	8 / 104	BP potassium ion transmembrane transport
32	7e-03	3 / 15	GSE/ REACTOME_AMINE_DERIVED_HORMONES
33	7e-03	8 / 106	Brain Overlap_fetal_midbrain_Tx
34	1e-02	4 / 32	BP sensory perception of taste
35	1e-02	8 / 112	BP methylation
36	1e-02	23 / 517	Glio Hopp_Sturm_GBM_Epi3_B_adult_UP_G34_DN
37	1e-02	3 / 18	MF G-protein coupled peptide receptor activity
38	1e-02	3 / 19	MF cyclin binding
39	1e-02	3 / 19	CC nonmotile primary cilium
40	1e-02	10 / 166	MF RNA polymerase II transcription factor activity, sequence-specific DNA bind





# Correlation Clusters

## Spot Summary: H

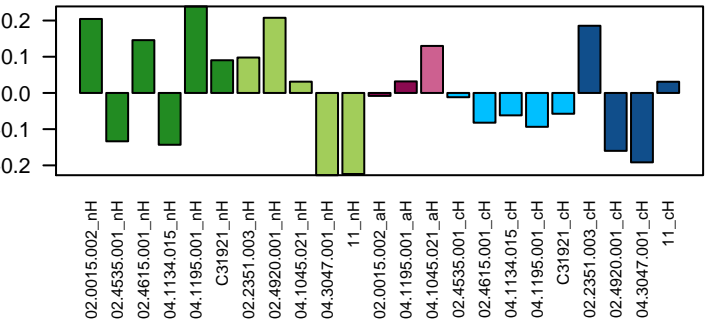
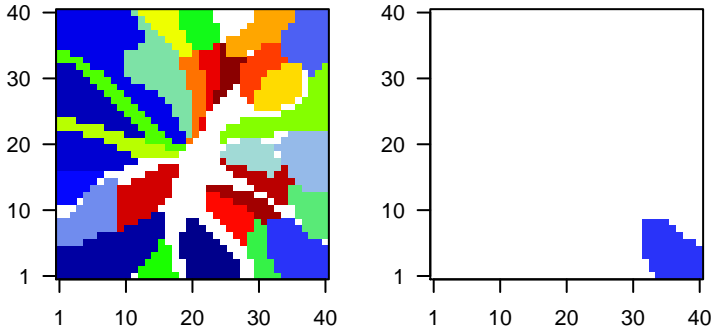
# metagenes = 64  
# genes = 802

<r> metagenes = 0.94  
<r> genes = 0.58  
beta: r2= 0.35 / log p= -2.56

# samples with spot = 8 ( 34.8 %)  
MLH1\_normHNPCC : 4 ( 66.7 %)  
other\_normHNPCC : 2 ( 40 %)  
other\_adenomaHNPCC : 1 ( 100 %)  
other\_cancerHNPCC : 1 ( 25 %)

### Overview Map

### Spot

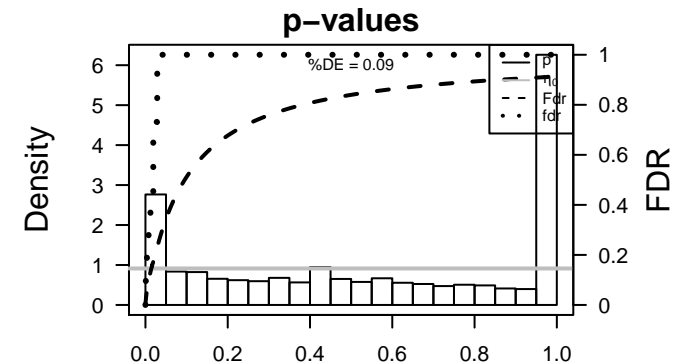


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG000002	1.55	-0.86	0.88	PHGR1 proline/histidine/glycine-rich 1 [Source:HGNC Symbol;Acc:HGNC:10000]
2	ENSG000001	1.42	-0.99	0.88	GUCA2Aguanylate cyclase activator 2A (guanylin) [Source:HGNC Syrn
3	ENSG000001	1.33	-0.38	0.47	PP7080 uncharacterized LOC25845 [Source:EntrezGene;Acc:25845]
4	ENSG000001	1.3	-0.63	0.75	AQP8 aquaporin 8 [Source:HGNC Symbol;Acc:HGNC:642]
5	ENSG000001	1.28	-0.52	0.63	ANPEP alanyl (membrane) aminopeptidase [Source:HGNC Symbol;A
6	ENSG000000	1.26	-0.59	0.72	CLCA4 chloride channel accessory 4 [Source:HGNC Symbol;Acc:HG
7	ENSG000000	1.24	-0.81	0.85	SLC26A3solute carrier family 26 (anion exchanger), member 3 [Source
8	ENSG000000	1.24	-0.99	0.8	CEACAM6carcinoembryonic antigen-related cell adhesion molecule 7 [
9	ENSG000001	1.24	-0.49	0.77	ZG16 zymogen granule protein 16 [Source:HGNC Symbol;Acc:HGNC:1
10	ENSG000000	1.22	-0.52	0.82	GUCA2Bguanylate cyclase activator 2B (uroguanylin) [Source:HGNC :
11	ENSG000001	1.21	-0.51	0.67	TFF1 trefoil factor 1 [Source:HGNC Symbol;Acc:HGNC:11755]
12	ENSG000001	1.2	-0.44	0.7	PRAP1 proline-rich acidic protein 1 [Source:HGNC Symbol;Acc:HGNC:1
13	ENSG000002	1.15	-0.61	0.85	
14	ENSG000001	1.13	-1.09	0.89	FABP1 fatty acid binding protein 1, liver [Source:HGNC Symbol;Acc:HGNC:1
15	ENSG000001	1.12	-0.37	0.74	AKR1B10aldo-keto reductase family 1, member B10 (aldose reductase
16	ENSG000001	1.1	-0.7	0.56	PI3 peptidase inhibitor 3, skin-derived [Source:HGNC Symbol;Acc:HGNC:1
17	ENSG000001	1.06	-1.31	0.63	PIGR polymeric immunoglobulin receptor [Source:HGNC Symbol;A
18	ENSG000001	1.02	-1.15	0.69	CEACAM5carcinoembryonic antigen-related cell adhesion molecule 5 [
19	ENSG000001	1	-0.96	0.9	KRT20 keratin 20, type I [Source:HGNC Symbol;Acc:HGNC:20412]
20	ENSG000001	1	-0.35	0.8	C11orf86chromosome 11 open reading frame 86 [Source:HGNC Symlt

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-99	174 / 507	Colon Pentrack_CRC_TCGA_corr_C_normal_UP
2	7e-77	73 / 104	Colon Pentrack_CRC_TCGA_group.over_A_normal_UP
3	6e-54	307 / 3112	Colon EnhA_Colon
4	1e-53	307 / 3122	Colon TxEnhG1_Colon
5	2e-53	60 / 110	Colon Marisa_CRC-cluster-h
6	3e-48	440 / 5889	Colon EnhWk1_Colon
7	2e-46	606 / 9930	Colon Tx_Colon
8	8e-42	663 / 11791	Colon Enh_Colon
9	4e-39	67 / 222	GSE/ COLDRN_GEFITINIB_RESISTANCE_DN
10	2e-38	70 / 251	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
11	2e-35	85 / 412	GSE/ LIM_MAMMARY_STEM_CELL_DN
12	1e-34	241 / 2638	CC extracellular exosome
13	2e-34	178 / 1624	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_UP
14	2e-31	84 / 455	GSE/ ONDER_CDH1_TARGETS_2_DN
15	5e-31	81 / 429	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_UP
16	1e-29	98 / 643	Color Lembcke_TCGA_meth_kmeans_J_CIMP_H_DN
17	5e-29	95 / 616	Color Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
18	3e-28	542 / 9390	Color TxWk_Colon
19	1e-27	95 / 641	GSE/ FEVR_CTNNB1_TARGETS_UP
20	7e-27	112 / 877	Color TxEnhG2_Colon
21	1e-25	95 / 682	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_3
22	7e-25	41 / 132	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_UP
23	1e-23	39 / 126	GSE/ VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_DN
24	3e-23	41 / 144	Lymp WIRTH_lymphoma937_spot G
25	3e-23	475 / 8123	Color TssF_Colon
26	4e-23	570 / 10475	Color TssA_Colon
27	2e-22	40 / 142	Lymp Hopp_June14_MMML937_tumors-controls_group.overexpression_G_tonsil
28	5e-22	412 / 6761	Color TssD2_Colon
29	1e-20	87 / 688	Color Lembcke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
30	1e-19	50 / 262	GSE/ SABATES_COLORECTAL_CANCER_ADENOMA_DN
31	3e-19	23 / 49	Color Marisa_CRC-cluster-f
32	3e-19	48 / 248	GSE/ JAEGER_METASTASIS_DN
33	6e-18	513 / 9470	Color Quies3_Colon
34	1e-17	609 / 11968	Color TssWk_Colon
35	3e-17	64 / 465	GSE/ SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_UP
36	4e-17	31 / 115	GSE/ CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_UP
37	1e-16	33 / 137	Tissu WIRTH_Mucosa
38	2e-16	107 / 1103	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_UP
39	2e-15	52 / 351	GSE/ CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_DN
40	7e-15	27 / 102	GSE/ LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT





# Correlation Clusters

## Spot Summary: I

# metagenes = 25  
# genes = 314

<r> metagenes = 0.95

<r> genes = 0.48

beta: r2= 0.07 / log p= -0.62

# samples with spot = 5 ( 21.7 %)

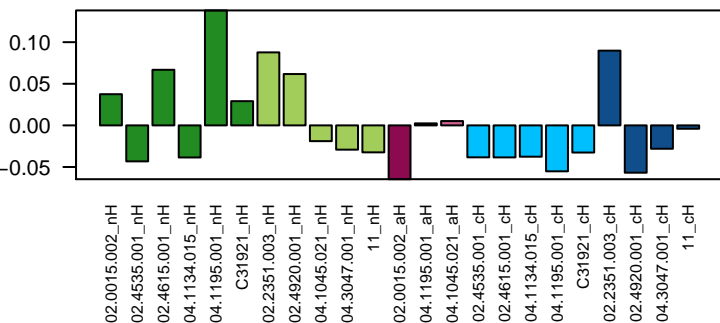
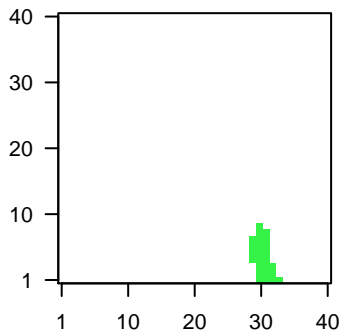
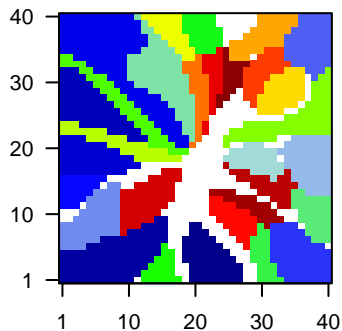
MLH1\_normHNPCC : 2 ( 33.3 %)

other\_normHNPCC : 2 ( 40 %)

other\_cancerHNPCC : 1 ( 25 %)

### Overview Map

### Spot

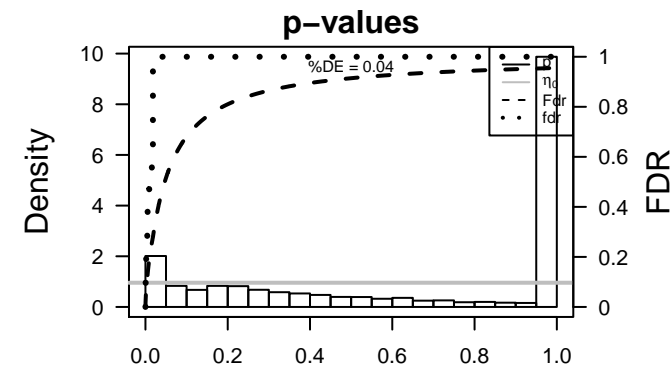


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	0.6	-0.11	0.39	RETNLB resistin like beta [Source:HGNC Symbol;Acc:HGNC:20388]
2	ENSG0000001	0.58	-0.49	0.53	MT1E metallothionein 1E [Source:HGNC Symbol;Acc:HGNC:7397]
3	ENSG0000001	0.49	-0.1	0.79	DDX60 DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 [Source:HGNC]
4	ENSG0000001	0.48	-0.09	0.38	ATOH1 atonal bHLH transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:14296]
5	ENSG0000002	0.44	-0.12	0.75	SAMD9 sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:HGNC:14296]
6	ENSG0000001	0.43	-0.1	0.88	CLIC5 chloride intracellular channel 5 [Source:HGNC Symbol;Acc:HGNC:14296]
7	ENSG0000001	0.42	-0.2	0.83	MXI1 MAX interactor 1, dimerization protein [Source:HGNC Symbol;Acc:HGNC:14296]
8	ENSG0000001	0.4	-0.07	0.18	CHGA chromogranin A [Source:HGNC Symbol;Acc:HGNC:1929]
9	ENSG0000001	0.4	-0.08	0.56	CAPN9 calpain 9 [Source:HGNC Symbol;Acc:HGNC:1486]
10	ENSG0000001	0.4	-0.18	0.26	RASL11/RAS-like, family 11, member A [Source:HGNC Symbol;Acc:HGNC:14296]
11	ENSG0000001	0.39	-0.33	0.46	ID3 inhibitor of DNA binding 3, dominant negative helix-loop-helix
12	ENSG0000001	0.39	-0.05	0.58	CMPK2 cytidine monophosphate (UMP-CMP) kinase 2, mitochondria
13	ENSG0000002	0.38	-0.17	0.5	
14	ENSG0000001	0.38	-0.07	0.67	RSAD2 radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14296]
15	ENSG0000002	0.36	-0.18	0.63	
16	ENSG0000002	0.36	-0.19	0.68	MT1M metallothionein 1M [Source:HGNC Symbol;Acc:HGNC:14296]
17	ENSG0000000	0.36	-0.34	0.61	KLF6 Kruppel-like factor 6 [Source:HGNC Symbol;Acc:HGNC:2236]
18	ENSG0000001	0.35	-0.21	0.44	ECH1 enoyl CoA hydratase 1, peroxisomal [Source:HGNC Symbol;Acc:HGNC:14296]
19	ENSG0000002	0.34	-0.12	0.34	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:U31111]
20	ENSG0000001	0.34	-0.18	0.6	CPT1A carnitine palmitoyltransferase 1A (liver) [Source:HGNC Symbol;Acc:HGNC:14296]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-32	58 / 507	Colon Pentrack_CRC_TCGA_corr_C_normal_UP
2	6e-30	248 / 9390	Colon TxWk_Colon
3	9e-28	252 / 9930	Colon Tx_Colon
4	2e-27	245 / 9470	Colon Quies3_Colon
5	2e-23	252 / 10475	Colon TssA_Colon
6	4e-22	177 / 5889	Colon EnhWk1_Colon
7	2e-19	50 / 682	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_3
8	6e-17	260 / 11968	Colon TssWk_Colon
9	3e-15	233 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
10	2e-14	35 / 453	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_5
11	9e-14	237 / 10800	Brain Overlap_fetal_midbrain_Quies
12	2e-11	245 / 11791	Colon Enh_Colon
13	8e-10	218 / 10239	Brain Overlap_fetal_midbrain_ReprPC
14	2e-09	153 / 6320	Brain Overlap_fetal_midbrain_HetRpts
15	2e-09	44 / 1005	GSE/ NUYTEN_EZH2_TARGETS_UP
16	4e-09	186 / 8358	Lymp HOPP_Active_promoter
17	6e-09	37 / 786	GSE/ KOINUMA_TARGETS_OF_SMAD2_OR_SMAD3
18	7e-09	30 / 549	GSE/ MASSARWEH_TAMOXIFEN_RESISTANCE_UP
19	2e-08	29 / 541	GSE/ FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN
20	2e-08	169 / 7491	Lymp HOPP_Txn_elongation
21	4e-08	27 / 495	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_DN
22	6e-08	207 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
23	8e-08	25 / 446	miRN hsa-miR-19b
24	1e-07	19 / 277	miRN hsa-miR-363
25	2e-07	6 / 17	BP cell separation after cytokinesis
26	2e-07	6 / 17	BP regulation of centrosome duplication
27	2e-07	19 / 283	miRN hsa-miR-1244
28	2e-07	48 / 1352	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
29	2e-07	34 / 791	GSE/ BUYTAERT_PHOTODYNAMIC_THERAPY_STRESS_UP
30	3e-07	5 / 10	BP regulation of mitotic spindle assembly
31	3e-07	5 / 10	BP viral budding via host ESCRT complex
32	3e-07	24 / 444	miRN hsa-let-7b
33	3e-07	34 / 804	GSE/ CUI_TCF21_TARGETS_2_DN
34	5e-07	85 / 3122	Colon TxEnhG1_Colon
35	7e-07	27 / 568	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_DN
36	7e-07	22 / 401	GSE/ REN_ALVEOLAR_RHABDOMYOSARCOMA_DN
37	7e-07	24 / 468	GSE/ ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF
38	8e-07	9 / 63	GSE/ AMIT_SERUM_RESPONSE_120_MCF10A
39	9e-07	174 / 8147	Lymp HOPP_Weak_promoter
40	1e-06	25 / 509	miRN hsa-miR-107





# Correlation Clusters

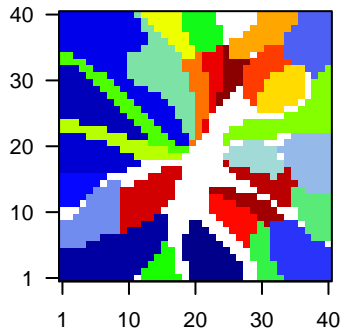
## Spot Summary: J

# metagenes = 23  
# genes = 227

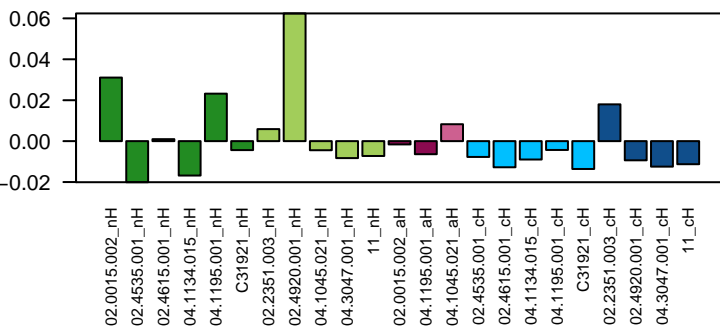
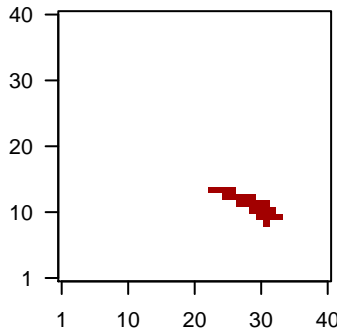
<r> metagenes = 0.95  
<r> genes = 0.41  
beta: r2= 0.01 / log p= -0.15

# samples with spot = 1 ( 4.3 %)  
other\_normHNPCC : 1 ( 20 %)

Overview Map



Spot

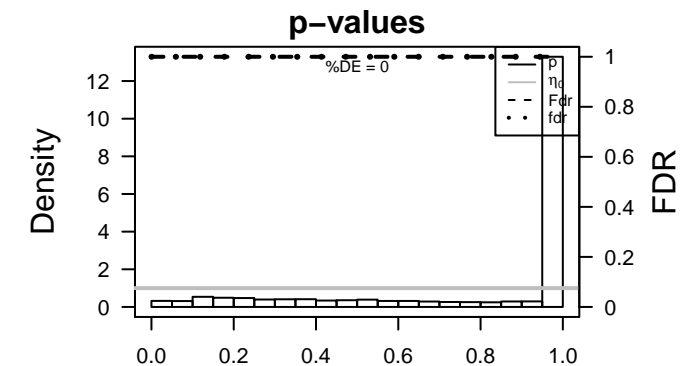


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG000001	0.28	-0.01	0.73	SFTPC surfactant protein C [Source:HGNC Symbol;Acc:HGNC:1080]
2	ENSG000002	0.26	-0.03	0.84	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H0
3	ENSG000001	0.24	-0.03	0.91	KRT15 keratin 15, type I [Source:HGNC Symbol;Acc:HGNC:6421]
4	ENSG000001	0.23	-0.06	0.73	
5	ENSG000001	0.22	-0.03	0.82	HIST1H3D histone cluster 1, H3d [Source:HGNC Symbol;Acc:HGNC:47f
6	ENSG000001	0.22	-0.06	0.69	ANKRD3 ankryrin repeat domain 37 [Source:HGNC Symbol;Acc:HGNC
7	ENSG000001	0.22	-0.09	0.61	SELK selenoprotein K [Source:EntrezGene;Acc:58515]
8	ENSG000002	0.21	-0.02	0.83	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H3l
9	ENSG000002	0.21	-0.05	0.78	
10	ENSG000001	0.21	-0.03	0.84	WFDC3 WAP four-disulfide core domain 3 [Source:HGNC Symbol;Ac
11	ENSG000000	0.2	-0.04	0.77	GIPR gastric inhibitory polypeptide receptor [Source:HGNC Symbol
12	ENSG000002	0.19	-0.02	0.78	C11orf91 chromosome 11 open reading frame 91 [Source:HGNC Synt
13	ENSG000000	0.19	-0.05	0.65	BAMBI BMP and activin membrane-bound inhibitor [Source:HGNC S
14	ENSG000001	0.18	-0.12	0.72	RNF7 ring finger protein 7 [Source:HGNC Symbol;Acc:HGNC:1007f
15	ENSG000001	0.18	-0.02	0.73	
16	ENSG000001	0.18	-0.02	0.72	FAM25G family with sequence similarity 25, member G [Source:HGNC
17	ENSG000001	0.18	-0.02	0.72	
18	ENSG000001	0.17	-0.04	0.42	COX6B2 cytochrome c oxidase subunit VIb polypeptide 2 (testis) [Sou
19	ENSG000000	0.17	-0.06	0.55	USP2 ubiquitin specific peptidase 2 [Source:HGNC Symbol;Acc:HG
20	ENSG000001	0.17	-0.14	0.4	SEMA4B sema domain, immunoglobulin domain (Ig), transmembrane c

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-05	5 / 35	BP respiratory gaseous exchange
2	3e-04	7 / 114	GSE/ HOOI_ST7_TARGETS_DN
3	4e-04	19 / 688	Colon Lembcke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
4	4e-04	8 / 152	GSE/ NABA_ECM_AFFILIATED
5	4e-04	3 / 13	GSE/ NAKAMURA_LUNG_CANCER_DIFFERENTIATION_MARKERS
6	1e-03	69 / 4327	Colon EnhWk2_Colon
7	2e-03	5 / 75	Colon Pentrack_CRC_TCGA_corr_N_msi-h_DN
8	3e-03	4 / 53	CC nucleosome
9	3e-03	2 / 8	GSE/ LIU_CDX2_TARGETS_DN
10	4e-03	3 / 28	GSE/ REACTOME_RNA_POL_I_PROMOTER_OPENING
11	4e-03	128 / 9470	Colon Quies3_Colon
12	4e-03	3 / 29	GSE/ REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_M
13	4e-03	3 / 29	GSE/ TAKADA_GASTRIC_CANCER_COPY_NUMBER_DN
14	5e-03	55 / 3457	Lymph HOPP_Heterochrom
15	6e-03	3 / 33	GSE/ PID_SYNDECAN_2_PATHWAY
16	7e-03	2 / 11	CC Cul2-RING ubiquitin ligase complex
17	7e-03	3 / 34	BP negative regulation of cell adhesion
18	8e-03	7 / 197	GSE/ PEDRIOLI_MIR31_TARGETS_UP
19	8e-03	20 / 967	GSE/ MARSON_BOUND_BY_FOXP3_STIMULATED
20	8e-03	11 / 410	GSE/ RIGGI_EWING_SARCOMA_PROGENITOR_UP
21	8e-03	2 / 12	GSE/ REACTOME_ERKS_ARE_INACTIVATED
22	8e-03	4 / 70	GSE/ TCGA_GLIOMASTOMA_COPY_NUMBER_UP
23	9e-03	5 / 110	Color Marisa_CRC-cluster-h
24	9e-03	28 / 1527	Glio Hopp_Sturm_GBM_Epi3_no_zentr_5_IDH_UP_fetus_adult_DN
25	9e-03	42 / 2549	Brain Fetal_TssF
26	9e-03	7 / 204	GSE/ BHAT_ESR1_TARGETS_NOT_VIA_AKT1_UP
27	9e-03	2 / 13	BP regulation of embryonic development
28	1e-02	4 / 73	GSE/ REACTOME_PLATELET_HOMEOSTASIS
29	1e-02	10 / 370	GSE/ RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN
30	1e-02	3 / 40	CC cell leading edge
31	1e-02	2 / 14	BP cellular response to nitric oxide
32	1e-02	2 / 14	MF glycine binding
33	1e-02	2 / 14	MF MAP kinase activity
34	1e-02	4 / 76	GSE/ GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUO
35	1e-02	3 / 41	TF Tf VAQUERIZAS_Testis
36	1e-02	4 / 77	GSE/ KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
37	1e-02	5 / 119	BP positive regulation of cytosolic calcium ion concentration
38	1e-02	3 / 42	BP lung alveolus development
39	1e-02	151 / 11791	Color Enh_Colon
40	1e-02	2 / 15	GSE/ REACTOME_PLATELET_SENSITIZATION_BY_LDL







# Correlation Clusters

## Spot Summary: K

# metagenes = 55  
# genes = 500

<r> metagenes = 0.96

<r> genes = 0.61

beta: r2= 0.05 / log p= -0.55

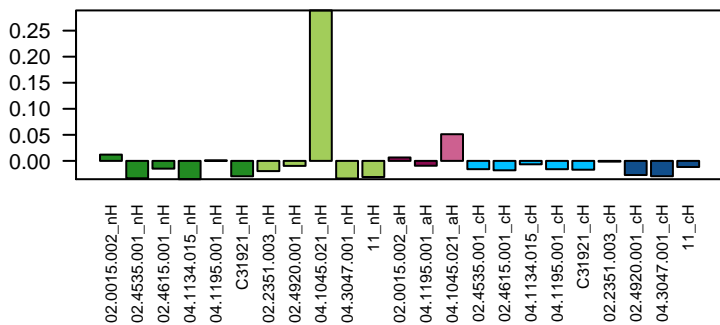
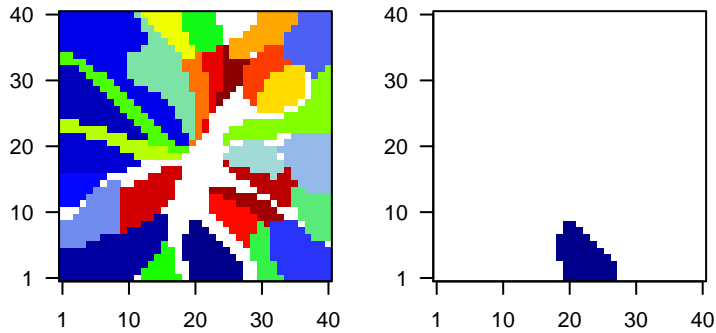
# samples with spot = 2 ( 8.7 %)

other\_normHNPCC : 1 ( 20 %)

other\_adenomaHNPCC : 1 ( 100 %)

## Overview Map

## Spot

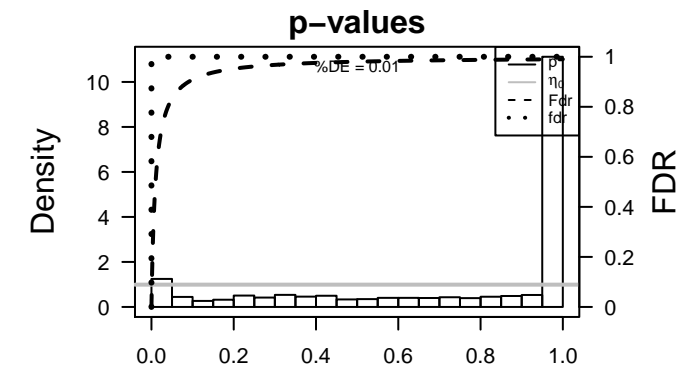


## Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	2.14	-0.26	0.98	ALDOB aldolase B, fructose-bisphosphate [Source:HGNC Symbol;Acc:HGNC:602]
2	ENSG0000001	2	-0.1	0.96	APOA4 apolipoprotein A-IV [Source:HGNC Symbol;Acc:HGNC:602]
3	ENSG0000001	1.85	-0.15	0.98	RBP2 retinol binding protein 2, cellular [Source:HGNC Symbol;Acc:HGNC:602]
4	ENSG0000001	1.46	-0.07	0.96	APOC3 apolipoprotein C-III [Source:HGNC Symbol;Acc:HGNC:610]
5	ENSG0000001	1.38	-0.08	0.97	CYP3A4 cytochrome P450, family 3, subfamily A, polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:602]
6	ENSG0000001	1.36	-0.06	0.96	S100G S100 calcium binding protein G [Source:HGNC Symbol;Acc:HGNC:602]
7	ENSG0000000	1.3	-0.29	0.88	SMIM24 small integral membrane protein 24 [Source:HGNC Symbol;Acc:HGNC:602]
8	ENSG0000001	1.24	-0.06	0.96	APOA1 apolipoprotein A-I [Source:HGNC Symbol;Acc:HGNC:600]
9	ENSG0000000	1.18	-0.06	0.96	APOB apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]
10	ENSG0000001	1.13	-0.18	0.96	SLC5A1 solute carrier family 5 (sodium/glucose cotransporter), member 1 [Source:HGNC Symbol;Acc:HGNC:602]
11	ENSG0000002	1.12	-0.08	0.96	GSTA1 glutathione S-transferase alpha 1 [Source:HGNC Symbol;Acc:HGNC:602]
12	ENSG0000001	1.11	-0.06	0.96	CCL25 chemokine (C-C motif) ligand 25 [Source:HGNC Symbol;Acc:HGNC:602]
13	ENSG0000001	1.09	-0.34	0.69	SERPINA5 serpin peptidase inhibitor, clade A (alpha-1 antitrypsin), member 5 [Source:HGNC Symbol;Acc:HGNC:602]
14	ENSG0000001	1.07	-0.23	0.95	FBP1 fructose-1,6-bisphosphatase 1 [Source:HGNC Symbol;Acc:HGNC:602]
15	ENSG0000000	1.06	-0.08	0.96	CREB3L3 cAMP responsive element binding protein 3-like 3 [Source:HGNC Symbol;Acc:HGNC:602]
16	ENSG0000001	1.04	-0.09	0.86	DEFA5 defensin, alpha 5, Paneth cell-specific [Source:HGNC Symbol;Acc:HGNC:602]
17	ENSG0000000	0.98	-0.05	0.96	FOLH1B folate hydrolase (prostate-specific membrane antigen) 1 [Source:HGNC Symbol;Acc:HGNC:602]
18	ENSG0000000	0.98	-0.1	0.95	SI sucrase-isomaltase (alpha-glucosidase) [Source:HGNC Symbol;Acc:HGNC:602]
19	ENSG0000001	0.97	-0.21	0.94	CBR1 carbonyl reductase 1 [Source:HGNC Symbol;Acc:HGNC:154]
20	ENSG0000001	0.95	-0.22	0.76	FABP2 fatty acid binding protein 2, intestinal [Source:HGNC Symbol;Acc:HGNC:602]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-28	46 / 229	GSE# HSHIAO_LIVER_SPECIFIC_GENES
2	3e-27	111 / 1418	BP small molecule metabolic process
3	4e-26	53 / 346	GSE# SANSOM_APC_TARGETS_DN
4	1e-20	46 / 336	GSE# VECCHI_GASTRIC_CANCER_EARLY_DN
5	3e-19	31 / 154	BP xenobiotic metabolic process
6	4e-19	34 / 193	HM HALLMARK_XENOBIOTIC_METABOLISM
7	2e-18	29 / 141	GSE# OHGUCHI_LIVER_HNF4A_TARGETS_DN
8	1e-17	21 / 67	GSE# KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450
9	2e-17	30 / 164	GSE# LEE_LIVER_CANCER_SURVIVAL_UP
10	9e-17	151 / 3064	Glio Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
11	9e-17	36 / 257	GSE# HOSHIDA_LIVER_CANCER_SUBCLASS_S3
12	1e-16	25 / 115	Tissue WIRTH_Liver
13	6e-16	21 / 80	GSE# WOO_LIVER_CANCER_RECURRENCE_DN
14	4e-15	25 / 132	GSE# REACTOME_BIOLOGICAL_OXIDATIONS
15	4e-15	57 / 688	Color Lembecke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
16	1e-14	131 / 2638	CC extracellular exosome
17	2e-14	18 / 64	BP cholesterol homeostasis
18	5e-14	53 / 640	BP oxidation-reduction process
19	6e-14	48 / 541	GSE# FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN
20	2e-13	26 / 170	GSE# CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN
21	4e-13	46 / 526	GSE# ACEVEDO_LIVER_CANCER_DN
22	4e-13	30 / 235	MF transporter activity
23	4e-13	32 / 268	CC apical plasma membrane
24	2e-12	31 / 268	GSE# ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_DN
25	7e-12	48 / 616	Color Lembecke_TCGA-expr_kmeans_M_CIMP_H_DN
26	8e-12	54 / 753	BP transmembrane transport
27	8e-12	49 / 641	GSE# FEVR_CTNNB1_TARGETS_UP
28	1e-11	37 / 396	GSE# REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_MOLECULES
29	1e-11	167 / 4052	CC integral component of membrane
30	7e-11	15 / 65	GSE# REACTOME_PHASE1_FUNCTIONALIZATION_OF_COMPOUNDS
31	7e-11	18 / 100	GSE# SERVITJA_ISLET_HNF1A_TARGETS_DN
32	9e-11	33 / 346	GSE# ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_DN
33	1e-10	15 / 68	GSE# KEGG_DRUG_METABOLISM_CYTOCHROME_P450
34	2e-10	10 / 24	BP triglyceride homeostasis
35	3e-10	13 / 51	MF monoxygenase activity
36	4e-10	14 / 62	GSE# KEGG_RETINOL_METABOLISM
37	6e-10	10 / 27	BP cholesterol efflux
38	1e-09	13 / 56	BP digestion
39	1e-09	25 / 231	GSE# REACTOME_SLC_MEDIATED_TRANSMEMBRANE_TRANSPORT
40	1e-09	28 / 287	MF oxidoreductase activity





# Correlation Clusters

## Spot Summary: L

# metagenes = 133  
# genes = 1666

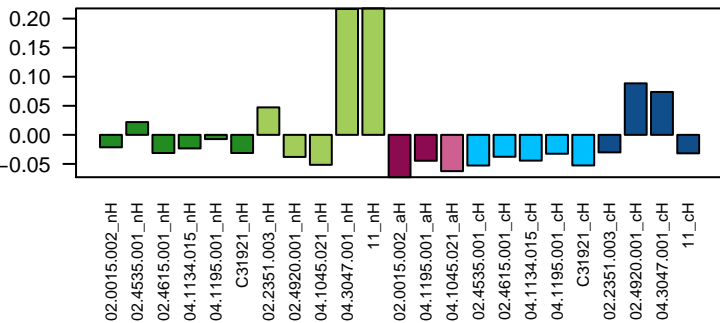
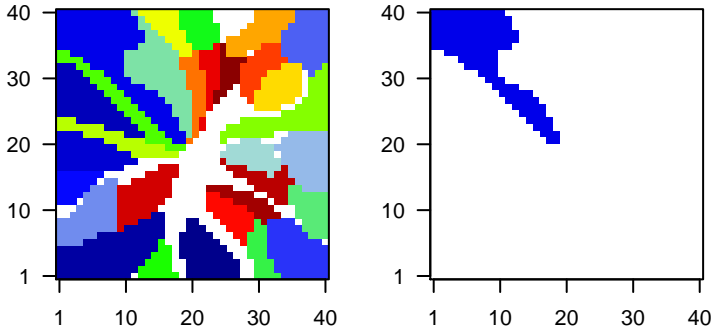
$\langle r \rangle$  metagenes = 0.94

beta:  $r^2 = 0.12$  /  $\log p = -0.97$

# samples with spot = 4 ( 17.4 %)  
other\_normHNPCC : 2 ( 40 %)  
other\_cancerHNPCC : 2 ( 50 %)

### Overview Map

### Spot

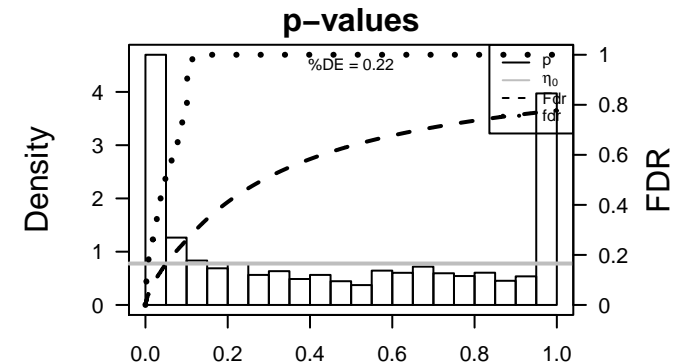


## Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	1.59	-0.8	0.83	DES desmin [Source:HGNC Symbol;Acc:HGNC:2770]
2	ENSG0000001	1.46	-0.53	0.93	MYH11 myosin, heavy chain 11, smooth muscle [Source:HGNC Syml
3	ENSG0000001	1.44	-0.52	0.91	CNN1 calponin 1, basic, smooth muscle [Source:HGNC Symbol;Acc
4	ENSG0000001	1.42	-0.68	0.88	ACTG2 actin, gamma 2, smooth muscle, enteric [Source:HGNC Syml
5	ENSG0000002	1.37	-0.24	0.43	MTRNR2M1-RNR2-like 1 [Source:HGNC Symbol;Acc:HGNC:37155]
6	ENSG0000001	1.35	-0.91	0.87	MYL9 myosin, light chain 9, regulatory [Source:HGNC Symbol;Acc:I
7	ENSG0000001	1.32	-0.37	0.95	SYNM synemin, intermediate filament protein [Source:HGNC Symbc
8	ENSG0000001	1.3	-0.58	0.95	FLNA filamin A, alpha [Source:HGNC Symbol;Acc:HGNC:3754]
9	ENSG0000001	1.29	-0.49	0.92	TPM2 tropomyosin 2 (beta) [Source:HGNC Symbol;Acc:HGNC:120
10	ENSG0000001	1.24	-0.52	0.7	IGFBP7 insulin-like growth factor binding protein 7 [Source:HGNC Sy
11	ENSG0000001	1.21	-0.38	0.96	CSRP1 cysteine and glycine-rich protein 1 [Source:HGNC Symbol;Ar
12	ENSG0000001	1.2	-0.74	0.89	TAGLN transgelin [Source:HGNC Symbol;Acc:HGNC:11553]
13	ENSG0000000	1.17	-0.45	0.93	HSPB6 heat shock protein, alpha-crystallin-related, B6 [Source:HG
14	ENSG0000000	1.17	-0.25	0.96	NDE1 nudE neurodevelopment protein 1 [Source:HGNC Symbol;Ac
15	ENSG0000001	1.17	-0.39	0.98	CALD1 caldesmon 1 [Source:HGNC Symbol;Acc:HGNC:1441]
16	ENSG0000000	1.17	-0.4	0.96	FHL1 four and a half LIM domains 1 [Source:HGNC Symbol;Acc:HK
17	ENSG0000001	1.17	-0.36	0.97	LMOD1 leiomodin 1 (smooth muscle) [Source:HGNC Symbol;Acc:HG
18	ENSG0000001	1.14	-0.57	0.92	ACTA2 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;
19	ENSG0000000	1.14	-0.3	0.98	MYLK myosin light chain kinase [Source:HGNC Symbol;Acc:HGNC:
20	ENSG0000001	1.12	-0.31	0.96	PLN phospholamban [Source:HGNC Symbol;Acc:HGNC:9080]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-75	5 / 16	Cancer LIU_PROSTATE_CANCER_DN
2	3e-74	97 / 132	Colon Marisa_CRC-cluster-b
3	2e-51	156 / 478	GSE/ LIM_MAMMARY_STEM_CELL_UP
4	1e-48	696 / 5039	Lymph HOPP_Repressed
5	3e-42	448 / 2838	Lymph HOPP_Poised_promoter
6	4e-37	645 / 4879	Colon Quies1_Colon
7	5e-36	460 / 3109	Colon TssP_Colon
8	4e-35	132 / 476	Tissue WIRTH_Nervous System
9	3e-34	164 / 692	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
10	6e-33	99 / 303	GSE/ PASINI_SUZ12_TARGETS_DN
11	1e-30	120 / 445	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
12	4e-30	133 / 535	GSE/ CHICAS_RB1_TARGETS_CONFLUENT
13	6e-30	1103 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
14	9e-30	111 / 399	Disease GUDJ_psooriasis down
15	6e-29	72 / 189	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_DN
16	1e-28	1141 / 10800	Brain Overlap_fetal_midbrain_Quies
17	6e-27	81 / 249	GSE/ BOQUEST_STEM_CELL_UP
18	2e-26	88 / 292	GSE/ CHANDRAN_METASTASIS_DN
19	1e-25	150 / 711	GSE/ LEE_BMP2_TARGETS_UP
20	1e-25	62 / 160	GSE/ BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN
21	2e-25	107 / 418	GSE/ SWEET_LUNG_CANCER_KRAS_DN
22	2e-25	69 / 196	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
23	3e-24	85 / 294	GSE/ ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_DN
24	3e-24	30 / 40	GSE/ TOMLINS_PROSTATE_CANCER_DN
25	1e-23	96 / 368	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
26	2e-23	78 / 261	Lymph LENZ_Stromal signature 1
27	7e-23	75 / 248	GSE/ ONDER_CDH1_TARGETS_2_UP
28	9e-23	113 / 490	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_DN
29	2e-22	118 / 530	GSE/ KIM_ALL_DISORDERS_CALB1_CORR_UP
30	1e-21	539 / 4379	Color TssD1_Colon
31	4e-21	63 / 195	HM HALLMARK_MYOGENESIS
32	6e-21	152 / 804	GSE/ CUI_TCF21_TARGETS_2_DN
33	2e-20	1201 / 11968	Color TssWk_Colon
34	3e-20	1059 / 10238	Brain Overlap_fetal_midbrain_ReprPC
35	4e-20	85 / 336	GSE/ VECCHI_GASTRIC_CANCER_EARLY_DN
36	9e-20	112 / 525	GSE/ WEST_ADRENOCORTICAL_TUMOR_DN
37	2e-19	52 / 148	Color Marisa_CRC-cluster-a
38	2e-19	91 / 384	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_DN
39	9e-19	95 / 419	GSE/ BAEALDE_DIABETIC_NEPHROPATHY_DN
40	1e-18	521 / 4327	Color EnhWk2_Colon





# Correlation Clusters

## Spot Summary: M

# metagenes = 81  
# genes = 1034

<r> metagenes = 0.95

beta: r2= 0.01 / log p= -0.13

# samples with spot = 0 ( 0 %)

## Spot Genelist

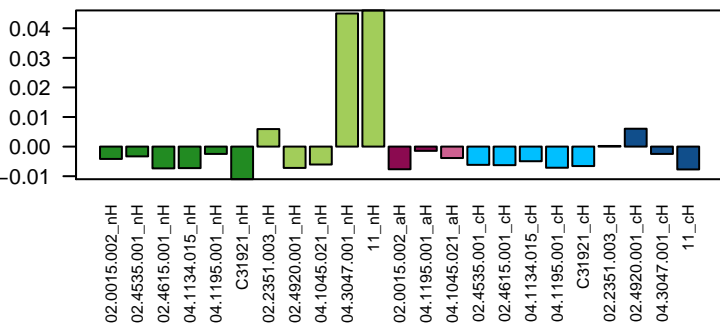
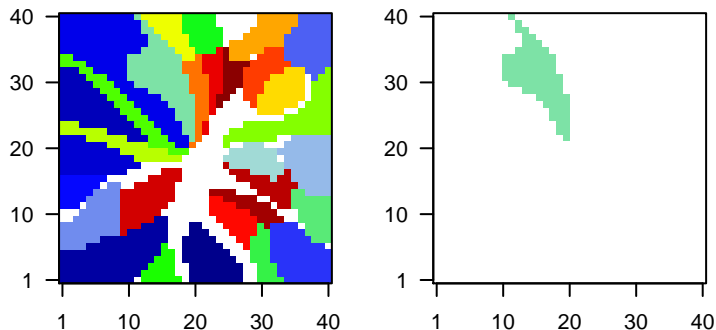
Rank	ID	max e	r	min e	Description
1	ENSG0000002	0.28	-0.36	0.33	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:V9K
2	ENSG0000001	0.25	-0.19	0.55	CDK2AP2cyclin-dependent kinase 2 associated protein 1 [Source:HGNC
3	ENSG0000002	0.24	-0.03	0.26	LY6G6F lymphocyte antigen 6 complex, locus G6F [Source:HGNC Sy
4	ENSG0000001	0.23	-0.13	0.47	ADAM9 ADAM metallopeptidase domain 9 [Source:HGNC Symbol;Ac
5	ENSG0000000	0.2	-0.14	0.49	COQ9 coenzyme Q9 [Source:HGNC Symbol;Acc:HGNC:25302]
6	ENSG0000001	0.19	-0.05	0.77	TPD52L1tumor protein D52-like 1 [Source:HGNC Symbol;Acc:HGNC:
7	ENSG0000001	0.19	-0.07	0.49	ATPAF1 ATP synthase mitochondrial F1 complex assembly factor 1 [S
8	ENSG0000001	0.19	-0.03	0.68	KRT17 keratin 17, type I [Source:HGNC Symbol;Acc:HGNC:6427]
9	ENSG0000002	0.18	-0.07	0.64	TRNP1 TMF1-regulated nuclear protein 1 [Source:HGNC Symbol;Ac
10	ENSG0000001	0.18	-0.09	0.78	PCMT1 protein-L-isoaspartate (D-aspartate) O-methyltransferase [S
11	ENSG0000001	0.17	-0.02	0.75	TAGLN3 transgelin 3 [Source:HGNC Symbol;Acc:HGNC:29868]
12	ENSG0000001	0.17	-0.06	0.86	C11orf74chromosome 11 open reading frame 74 [Source:HGNC Synt
13	ENSG0000000	0.17	-0.1	0.52	DLD dihydroliipoamide dehydrogenase [Source:HGNC Symbol;Acc
14	ENSG0000002	0.17	-0.05	0.69	LOC105376855peptide Y receptor Y4 [Source:HGNC Symbol;Acc:HGNC
15	ENSG0000001	0.17	-0.06	0.79	ZNF503 zinc finger protein 503 [Source:HGNC Symbol;Acc:HGNC:23
16	ENSG0000002	0.17	-0.15	0.55	Uncharacterized protein; cDNA FLJ60496 [Source:UniProtKB
17	ENSG0000000	0.17	-0.15	0.58	DDX1 DEAD (Asp-Glu-Ala-Asp) box helicase 1 [Source:HGNC Sy
18	ENSG0000001	0.17	-0.07	0.8	ZADH2 zinc binding alcohol dehydrogenase domain containing 2 [So
19	ENSG0000000	0.17	-0.12	0.6	TMEM144transmembrane protein 14A [Source:HGNC Symbol;Acc:HGNC
20	ENSG0000001	0.16	-0.15	0.59	CTDSPL CTD (carboxy-terminal domain, RNA polymerase II, polypept

## Geneset Overrepresentation

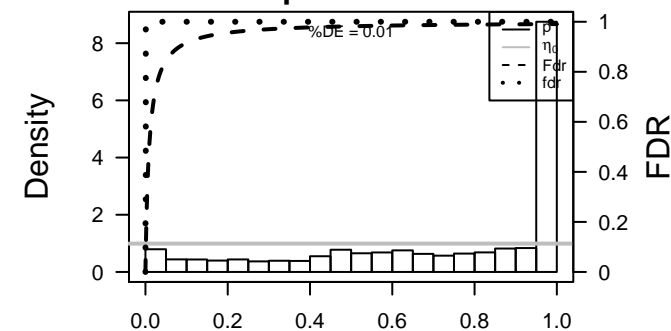
Rank	p-value	#in/all	Geneset
1	2e-26	285 / 2947	Colon ReprPCWk_Colon
2	1e-24	87 / 476	Tissu WIRTH_Nervous System
3	1e-23	400 / 4879	Colon Quies1_Colon
4	1e-23	288 / 3109	Colon TssP_Colon
5	3e-23	306 / 3406	Colon ReprPC_Colon
6	2e-21	136 / 1084	Brain Overlap_fetal_midbrain_EnhG
7	8e-21	687 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
8	1e-19	147 / 1279	Brain Overlap_fetal_midbrain_Enh
9	4e-19	181 / 1753	Colon HeT_Colon
10	6e-17	385 / 5039	Lymph HOPP_Repressed
11	4e-16	77 / 525	Colon Quies2_Colon
12	6e-15	135 / 1281	Colon HeTRpts_Colon
13	2e-11	177 / 2041	Colon EnhP_Colon
14	2e-11	217 / 2658	Lymph HOPP_Repetitive
15	3e-11	160 / 1798	TF HEBENSTREIT_low expression TF
16	3e-11	227 / 2838	Lymph HOPP_Poised_promoter
17	8e-11	57 / 422	CC cell junction
18	9e-11	33 / 171	GSE/ VERHAAK_GLIOMASTOMA_PRONEURAL
19	1e-09	45 / 312	CC dendrite
20	2e-09	64 / 546	GSE/ MIKKELSEN_MEF_HCP_WITH_H3K27ME3
21	5e-09	50 / 386	Color Lembcke_TCGA_meth_kmeans_H_CIMP_L_UP_CIMP_H_DN
22	6e-09	23 / 106	Glio WIRTH_Normal Brain
23	1e-08	52 / 419	BP synaptic transmission
24	2e-08	74 / 712	Brain Overlap_fetal_midbrain_EnhP
25	4e-08	37 / 258	CC axon
26	5e-08	14 / 45	BP synapse assembly
27	5e-08	118 / 1356	Brain Fetal_K9K27me3
28	7e-08	41 / 310	Color Lembcke_TCGA_meth_kmeans_A_Cluster4_DN
29	1e-07	95 / 1041	GSE/ BENPORATH_ES_WITH_H3K27ME3
30	2e-07	51 / 442	Color Lembcke_TCGA_meth_kmeans_E_CIMP_H_UP_
31	2e-07	48 / 410	GSE/ MIKKELSEN_MCV6_HCP_WITH_H3K27ME3
32	3e-07	8 / 15	BP neuron cell-cell adhesion
33	5e-07	648 / 10800	Brain Overlap_fetal_midbrain_Quies
34	5e-07	88 / 971	GSE/ BENPORATH_SUZ12_TARGETS
35	7e-07	29 / 198	CC postsynaptic membrane
36	7e-07	618 / 10239	Brain Overlap_fetal_midbrain_ReprPC
37	2e-06	12 / 43	CC ciliary tip
38	2e-06	38 / 316	BP nervous system development
39	2e-06	73 / 787	Brain Overlap_fetal_midbrain_TssP
40	3e-06	10 / 31	BP neuronal action potential

### Overview Map

### Spot



### p-values





# Correlation Clusters

## Spot Summary: N

# metagenes = 29  
# genes = 301

<r> metagenes = 0.93

<r> genes = 0.5

beta: r2= 0.01 / log p= -0.19

# samples with spot = 0 ( 0 %)

## Spot Genelist

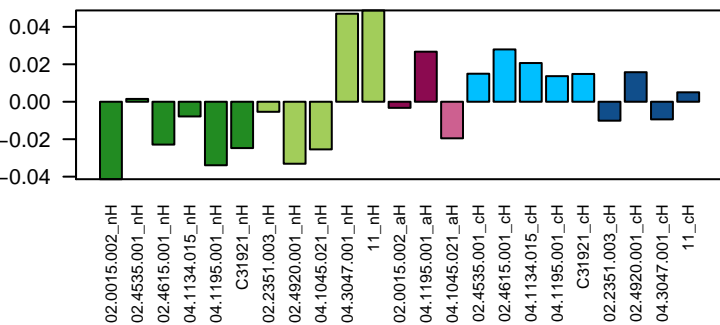
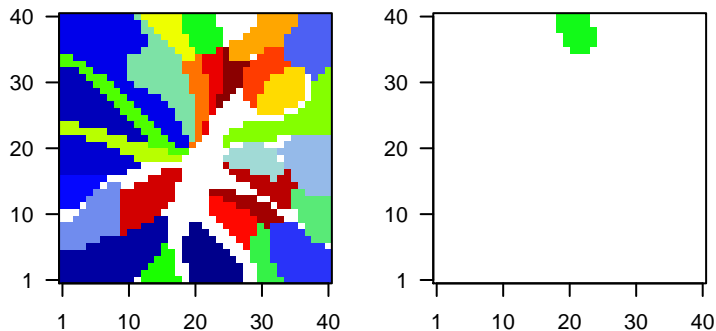
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000002	0.29	-0.03	0.32	
2	ENSG0000001	0.22	-0.04	0.45	APCDD1 adenomatosis polyposis coli down-regulated 1 [Source:HGNC]
3	ENSG0000002	0.2	-0.15	0.61	PGAM4 phosphoglycerate mutase family member 4 [Source:HGNC S
4	ENSG0000001	0.2	-0.06	0.47	FADS2 fatty acid desaturase 2 [Source:HGNC Symbol;Acc:HGNC:35
5	ENSG0000001	0.18	-0.08	0.69	PM20D2 peptidase M20 domain containing 2 [Source:HGNC Symbol;A
6	ENSG0000001	0.17	-0.07	0.77	GPSM2 G-protein signaling modulator 2 [Source:HGNC Symbol;Acc:
7	ENSG0000001	0.16	-0.1	0.87	TOMM70 translocase of outer mitochondrial membrane 70 homolog A (
8	ENSG0000002	0.16	-0.17	0.68	TIMM23 translocase of inner mitochondrial membrane 23 homolog B (
9	ENSG0000001	0.15	-0.1	0.59	BCAS2 breast carcinoma amplified sequence 2 [Source:HGNC Synt
10	ENSG0000001	0.14	-0.17	0.65	ATP5A1 ATP synthase, H+ transporting, mitochondrial F1 complex, al
11	ENSG0000001	0.14	-0.11	0.65	HSPA4 heat shock 70kDa protein 4 [Source:HGNC Symbol;Acc:HGNC
12	ENSG0000001	0.14	-0.07	0.58	RARG retinoic acid receptor, gamma [Source:HGNC Symbol;Acc:HC
13	ENSG0000001	0.14	-0.1	0.67	RBBP4 retinoblastoma binding protein 4 [Source:HGNC Symbol;Acc:
14	ENSG0000000	0.13	-0.1	0.8	TXLNA taxilin alpha [Source:HGNC Symbol;Acc:HGNC:30685]
15	ENSG0000001	0.13	-0.11	0.44	TMCO3 transmembrane and coiled-coil domains 3 [Source:HGNC Sy
16	ENSG0000001	0.13	-0.09	0.82	SLC39A6 solute carrier family 39 (zinc transporter), member 6 [Source:
17	ENSG0000001	0.12	-0.06	0.84	CLCC1 chloride channel CLIC-like 1 [Source:HGNC Symbol;Acc:HG
18	ENSG0000001	0.12	-0.1	0.66	SLC4A2 solute carrier family 4 (anion exchanger), member 2 [Source:l
19	ENSG0000001	0.12	-0.07	0.72	IMPACT impact RWD domain protein [Source:HGNC Symbol;Acc:HG
20	ENSG0000001	0.12	-0.13	0.79	ETF1 eukaryotic translation termination factor 1 [Source:HGNC Syr

## Geneset Overrepresentation

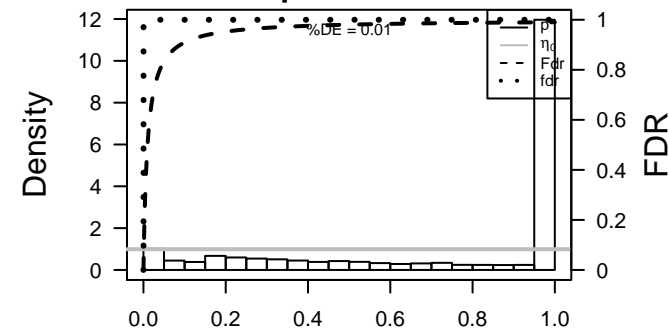
Rank	p-value	#in/all	Geneset
1	4e-39	209 / 6320	Brain Overlap_fetal_midbrain_HetRpts
2	3e-37	225 / 7491	Lymph HOPE_Txn_elongation
3	4e-33	257 / 10239	Brain Overlap_fetal_midbrain_ReprPC
4	2e-32	259 / 10475	Colon TssA_Colon
5	5e-29	240 / 9390	Colon TxWk_Colon
6	1e-27	245 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
7	2e-26	243 / 9930	Colon Tx_Colon
8	7e-26	220 / 8358	Lymph HOPE_Active_promoter
9	2e-19	224 / 9470	Colon Quies3_Colon
10	2e-17	158 / 5643	Lymph HOPE_Txn_transition
11	5e-16	63 / 1298	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
12	2e-15	227 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
13	2e-14	232 / 10800	Brain Overlap_fetal_midbrain_Quies
14	6e-13	244 / 11968	Colon TssWk_Colon
15	8e-12	42 / 807	Lymph Hopp_June14_MMM1937_tumors+controls_group.overexpression_D_cell
16	2e-11	42 / 830	Colon Pentrack_CRC_TCGA_corr_R_normal_DN
17	4e-11	41 / 811	Lymph WIRTH_lymphoma937_spot D
18	7e-11	183 / 8147	Lymph HOPE_Weak_promoter
19	7e-10	40 / 859	GSE/ LEE_BMP2_TARGETS_DN
20	4e-09	48 / 1228	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
21	9e-09	38 / 862	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
22	1e-08	25 / 415	GSE/ GARY_CD5_TARGETS_DN
23	2e-08	53 / 1503	TF ICGC_Six5_targets
24	2e-08	125 / 5173	TF ICGC_Taf1_targets
25	1e-07	38 / 944	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
26	1e-07	60 / 1914	GSE/ PILON_KLF1_TARGETS_DN
27	2e-07	20 / 326	GSE/ RICKMAN_METASTASIS_UP
28	5e-07	9 / 62	GSE/ TURASHVILI_BREAST_NORMAL_DUCTAL_VS_LOBULAR_UP
29	7e-07	126 / 5526	TF ICGC_Pmlsc71910_targets
30	1e-06	125 / 5512	TF ICGC_Nficsc81335_targets
31	1e-06	27 / 610	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_UP
32	1e-06	35 / 925	GSE/ ACEVEDO_LIVER_CANCER_UP
33	1e-06	16 / 242	GSE/ REACTOME_METABOLISM_OF_RNA
34	2e-06	33 / 850	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
35	2e-06	49 / 1549	TF ICGC_Myc_targets
36	2e-06	31 / 775	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
37	2e-06	167 / 8123	Colon TssF_Colon
38	2e-06	8 / 56	CC proteasome complex
39	3e-06	30 / 747	GSE/ PUJANA_CHEK2_PCC_NETWORK
40	3e-06	52 / 1713	GSE/ GRAESSMANN_APOPTOSIS_BY_DOXORUBICIN_DN

### Overview Map

### Spot



### p-values







# Correlation Clusters

## Spot Summary: O

# metagenes = 27  
# genes = 294

<r> metagenes = 0.97

<r> genes = 0.5

beta: r2= 0.02 / log p= -0.28

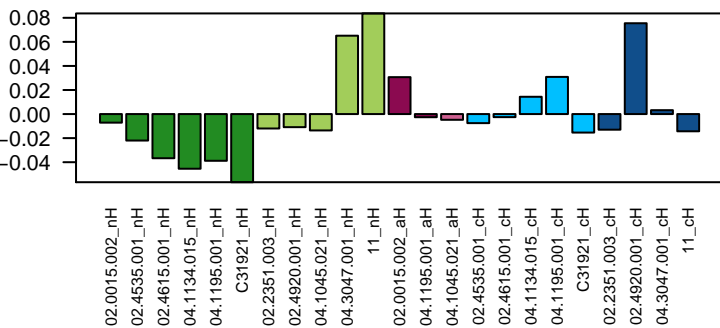
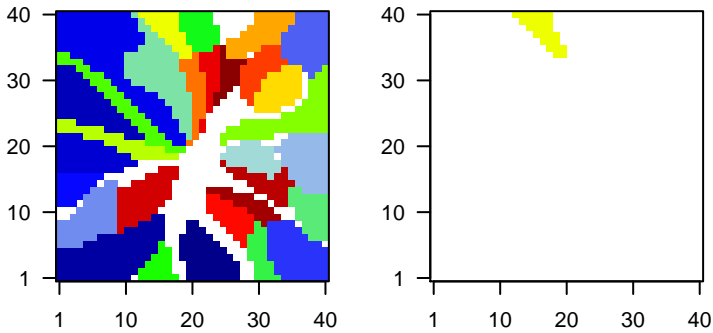
# samples with spot = 3 ( 13 %)

other\_normHNPCC : 2 ( 40 %)

other\_cancerHNPCC : 1 ( 25 %)

Overview Map

Spot

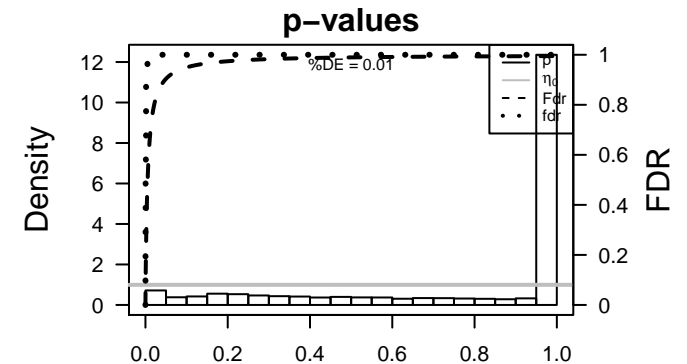


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG000002	0.6	-0.03	0.46	SPINK1serine peptidase inhibitor, Kazal type 13 (putative) [Source:HGNC Symbol]
2	ENSG000001	0.53	-0.03	0.47	SPINK6 serine peptidase inhibitor, Kazal type 6 [Source:HGNC Symbol]
3	ENSG000001	0.43	-0.24	0.9	COPRS coordinator of PRMT5, differentiation stimulator [Source:HGNC Symbol]
4	ENSG000000	0.42	-0.05	0.68	HSD17B4hydroxysteroid (17-beta) dehydrogenase 6 [Source:HGNC Symbol]
5	ENSG000001	0.37	-0.08	0.58	PLEKHA4pleckstrin homology domain containing, family A (phosphoinositide-binding)
6	ENSG000001	0.36	-0.36	0.52	SDC4 syndecan 4 [Source:HGNC Symbol;Acc:HGNC:10661]
7	ENSG000001	0.34	-0.02	0.59	ASB5 ankryrin repeat and SOCS box containing 5 [Source:HGNC Symbol]
8	ENSG000001	0.34	-0.11	0.56	IGFBP6 insulin-like growth factor binding protein 6 [Source:HGNC Symbol]
9	ENSG000001	0.32	-0.14	0.56	PKDCC protein kinase domain containing, cytoplasmic [Source:HGNC Symbol]
10	ENSG000001	0.31	-0.13	0.73	SYNC syncollin, intermediate filament protein [Source:HGNC Symbol]
11	ENSG000000	0.28	-0.07	0.56	PHGDH phosphoglycerate dehydrogenase [Source:HGNC Symbol;Acc:HGNC:10661]
12	ENSG000002	0.26	-0.3	0.36	RNASE4ribonuclease, RNase A family, 4 [Source:HGNC Symbol;Acc:HGNC:10661]
13	ENSG000001	0.26	-0.11	0.7	CTNNA1tatenin (cadherin-associated protein), alpha-like 1 [Source:HGNC Symbol]
14	ENSG000001	0.26	-0.08	0.67	LOXL2 lysyl oxidase-like 2 [Source:HGNC Symbol;Acc:HGNC:6666]
15	ENSG000001	0.25	-0.16	0.63	S100A13S100 calcium binding protein A13 [Source:HGNC Symbol;Acc:HGNC:10661]
16	ENSG000000	0.24	-0.21	0.66	CD99 CD99 molecule [Source:HGNC Symbol;Acc:HGNC:7082]
17	ENSG000001	0.24	-0.21	0.87	NDUFA8 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8, 1
18	ENSG000001	0.23	-0.08	0.76	UFSP2 UFM1-specific peptidase 2 [Source:HGNC Symbol;Acc:HGNC:10661]
19	ENSG000001	0.23	-0.46	0.72	CD151 CD151 molecule (Raph blood group) [Source:HGNC Symbol;Acc:HGNC:10661]
20	ENSG000001	0.23	-0.11	0.65	CENPB centromere protein B, 80kDa [Source:HGNC Symbol;Acc:HGNC:10661]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-23	233 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
2	3e-23	240 / 10475	Colon TssA_Colon
3	1e-17	196 / 8123	Colon TssF_Colon
4	4e-15	221 / 10239	Brain Overlap_fetal_midbrain_ReprPC
5	3e-11	207 / 9930	Colon Tx_Colon
6	5e-11	183 / 8358	Lymph HOPP_Active_promoter
7	8e-11	198 / 9390	Colon TxWk_Colon
8	1e-10	179 / 8147	Lymph HOPP_Weak_promoter
9	2e-09	38 / 830	Colon Pentrack_CRC_TCGA_corr_R_normal_DN
10	1e-08	91 / 3370	Brain Mid_Frontal_Lobe_ZNF
11	5e-08	160 / 7491	Lymph HOPP_Txn_elongation
12	6e-07	206 / 10800	Brain Overlap_fetal_midbrain_Quies
13	8e-07	24 / 499	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
14	1e-06	33 / 865	Brain Mid_Frontal_Lobe_Het
15	2e-06	10 / 96	BP respiratory electron transport chain
16	2e-06	142 / 6761	Color TssD2_Colon
17	3e-06	7 / 41	BP mitochondrial electron transport, NADH to ubiquinone
18	3e-06	7 / 41	MF NADH dehydrogenase (ubiquinone) activity
19	4e-06	8 / 60	GSE/ REACTOME_RESPIRATORY_ELECTRON_TRANSPORT
20	4e-06	13 / 177	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_17
21	4e-06	7 / 44	CC mitochondrial respiratory chain complex I
22	4e-06	183 / 9470	Color Quies3_Colon
23	6e-06	133 / 6320	Brain Overlap_fetal_midbrain_HetRpts
24	8e-06	10 / 111	GSE/ REACTOME_TCA_CYCLE_AND_RESPIRATORY_ELECTRON_TRANSPORT
25	8e-06	11 / 136	BP cellular metabolic process
26	1e-05	12 / 167	GSE/ KEGG_HUNTINGTONS_DISEASE
27	1e-05	15 / 263	GSE/ LU_EZH2_TARGETS_UP
28	2e-05	8 / 76	GSE/ REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHESIS
29	3e-05	40 / 1333	Lymph SPANG_BCR_UP
30	3e-05	4 / 13	CC proteasome regulatory particle, base subcomplex
31	5e-05	9 / 109	GSE/ KEGG_PARKINSONS_DISEASE
32	1e-04	10 / 148	GSE/ CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_DN
33	1e-04	211 / 11791	Color Enh_Colon
34	1e-04	4 / 17	CC proteasome accessory complex
35	1e-04	25 / 713	Color Pentrack_CRC_TCGA_group_over_C_normal_DN
36	1e-04	16 / 356	GSE/ DAIRKEE_TERT_TARGETS_UP
37	1e-04	128 / 6389	Lymph HOPP_Weak_txn
38	2e-04	27 / 830	GSE/ ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_UP
39	7 / 83	GSE/ MOOTHA_VOXPPOS	
40	3e-04	10 / 169	Glio WILLSCHER_GBM_proteomics_wtOnly_Differencelist





# Correlation Clusters

## Spot Summary: P

# metagenes = 28  
# genes = 340

<r> metagenes = 0.95  
<r> genes = 0.41  
beta: r2= 0 / log p= -0.04

# samples with spot = 0 ( 0 %)

## Spot Genelist

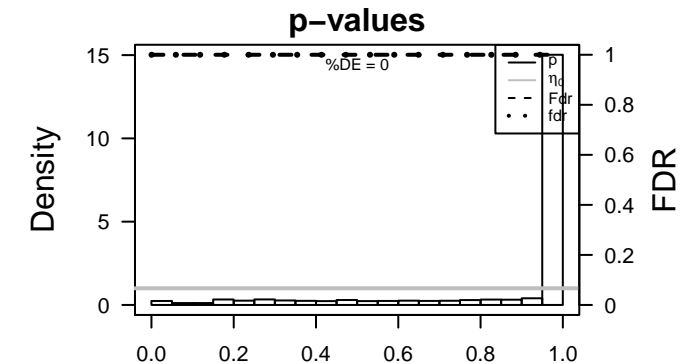
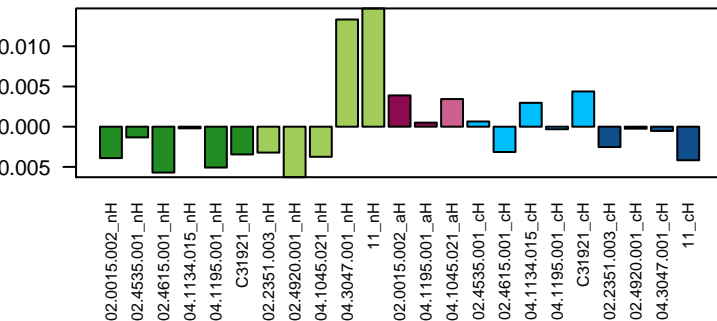
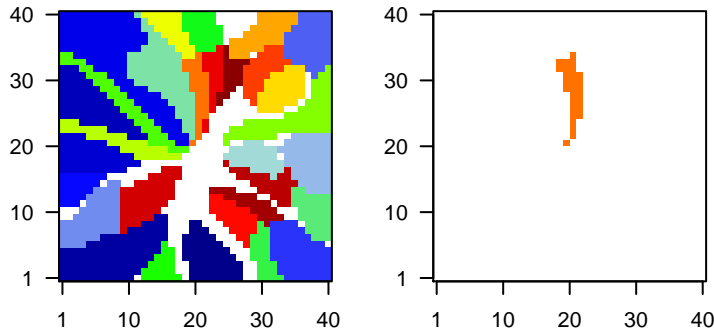
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	0.08	-0.04	0.66	CCDC146coiled-coil domain containing 146 [Source:HGNC Symbol;Acc:HGNC:4429]
2	ENSG0000001	0.07	-0.04	0.62	DNMT3ADNA (cytosine-5-)-methyltransferase 3 alpha [Source:HGNC Symbol;Acc:HGNC:4429]
3	ENSG0000001	0.07	-0.06	0.41	CAMKK2calcium/calmodulin-dependent protein kinase kinase 2, beta
4	ENSG0000001	0.07	-0.05	0.74	
5	ENSG0000001	0.06	-0.04	0.62	UOCC1 ubiquinol-cytochrome c reductase complex assembly factor 1
6	ENSG0000001	0.06	-0.06	0.39	GOLGB1golgin B1 [Source:HGNC Symbol;Acc:HGNC:4429]
7	ENSG0000001	0.06	-0.01	0.51	ASTN2 astrotactin 2 [Source:HGNC Symbol;Acc:HGNC:17021]
8	ENSG0000001	0.06	-0.03	0.68	MPV17L MPV17 mitochondrial membrane protein-like [Source:HGNC Symbol;Acc:HGNC:4429]
9	ENSG0000001	0.05	-0.01	0.79	ZDHHC1zinc finger, DHHC-type containing 11 [Source:HGNC Symbol;Acc:HGNC:4429]
10	ENSG0000001	0.05	-0.03	0.64	TPCN2 two pore segment channel 2 [Source:HGNC Symbol;Acc:HGNC:4429]
11	ENSG0000002	0.05	-0.02	0.57	
12	ENSG0000000	0.05	-0.03	0.49	SETD1A SET domain containing 1A [Source:HGNC Symbol;Acc:HGNC:4429]
13	ENSG0000001	0.05	-0.03	0.78	DZIP3 DAZ interacting zinc finger protein 3 [Source:HGNC Symbol;Acc:HGNC:4429]
14	ENSG0000001	0.05	-0.03	0.6	AHI1 Abelson helper integration site 1 [Source:HGNC Symbol;Acc:HGNC:4429]
15	ENSG0000001	0.05	-0.01	0.68	EFHC2 EF-hand domain (C-terminal) containing 2 [Source:HGNC Symbol;Acc:HGNC:4429]
16	ENSG0000001	0.05	-0.01	0.78	BHMT betaine-homocysteine S-methyltransferase [Source:HGNC Symbol;Acc:HGNC:4429]
17	ENSG0000001	0.05	-0.02	0.76	RAB33B RAB33B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:4429]
18	ENSG0000001	0.05	-0.02	0.78	PAIP2B poly(A) binding protein interacting protein 2B [Source:HGNC Symbol;Acc:HGNC:4429]
19	ENSG0000001	0.05	-0.02	0.64	NHS Nance-Horan syndrome (congenital cataracts and dental anomalies) [Source:HGNC Symbol;Acc:HGNC:4429]
20	ENSG0000001	0.05	-0.02	0.55	FLRT3 fibronectin leucine rich transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:4429]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-10	67 / 1753	Colon Het_Colon
2	4e-09	52 / 1281	Colon HetRpts_Colon
3	6e-09	36 / 712	Brain Overlap_fetal_midbrain_EnhP
4	1e-08	51 / 1279	Brain Overlap_fetal_midbrain_Enh
5	2e-08	48 / 1178	Colon ZNF_Colon
6	7e-08	44 / 1084	Brain Overlap_fetal_midbrain_EnhG
7	4e-07	24 / 431	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_2
8	8e-06	61 / 2040	MF metal ion binding
9	3e-05	116 / 4879	Colon Quies1_Colon
10	1e-04	22 / 525	Colon Quies2_Colon
11	2e-04	9 / 118	BP cilium assembly
12	2e-04	5 / 33	BP protein polymerization
13	2e-04	36 / 1134	MF nucleic acid binding
14	6e-04	45 / 1604	CC intracellular
15	7e-04	5 / 42	CC ciliary membrane
16	7e-04	49 / 1807	BP transcription, DNA-templated
17	7e-04	3 / 11	BP inner dynein arm assembly
18	9e-04	7 / 90	CC ciliary basal body
19	1e-03	29 / 917	Glio Hopp_Sturm_GBM_Epi3_no_zentr_1_G34_DN
20	1e-03	7 / 95	CC centriole
21	1e-03	6 / 70	CC axoneme
22	1e-03	3 / 13	CC TCTN-B9D complex
23	1e-03	48 / 1808	BP regulation of transcription, DNA-templated
24	2e-03	3 / 14	BP motile cilium assembly
25	2e-03	4 / 31	MF delayed rectifier potassium channel activity
26	2e-03	80 / 3457	Lymp HOPP_Heterochrom
27	2e-03	28 / 910	Brain Fetal_EnhG
28	2e-03	33 / 1137	Brain Fetal_Enh
29	2e-03	5 / 53	Glio Gorovets_LGG_EPL_subclass
30	3e-03	2 / 5	GSE/ TESAR_ALK_AND_JAK_TARGETS_MOUSE_ES_D4_UP
31	3e-03	3 / 18	GSE/ REACTOME_POST_CHAPERONIN_TUBULIN_FOLDING_PATHWAY
32	4e-03	4 / 38	BP microtubule-based process
33	4e-03	2 / 6	GSE/ PALOMERO_GSI_SENSITIVITY_UP
34	4e-03	42 / 1624	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_UP
35	4e-03	4 / 39	GSE/ REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS
36	4e-03	13 / 329	GSE/ REACTOME_GENERIC_TRANSCRIPTION_PATHWAY
37	5e-03	3 / 21	GSE/ REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMEDIATES_UP
38	5e-03	3 / 21	GSE/ FINETTI_BREAST_CANCERS_KINOME_BLUE
39	6e-03	2 / 7	GSE/ TESAR_ALK_TARGETS_EPISC_4D_UP
40	6e-03	3 / 22	BP cilium movement

### Overview Map

### Spot



Rank	p-value	#in/all
1	0.000000	123
2	0.000000	123
3	0.000000	123
4	0.000000	123
5	0.000000	123
6	0.000000	123
7	0.000000	123
8	0.000000	123
9	0.000000	123
10	0.000000	123
11	0.000000	123
12	0.000000	123
13	0.000000	123
14	0.000000	123
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16	0.000000	123
17	0.000000	123
18	0.000000	123
19	0.000000	123
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21	0.000000	123
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23	0.000000	123
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25	0.000000	123
26	0.000000	123
27	0.000000	123
28	0.000000	123
29	0.000000	123
30	0.000000	123
31	0.000000	123
32	0.000000	123
33	0.000000	123
34	0.000000	123
35	0.000000	123
36	0.000000	123
37	0.000000	123
38	0.000000	123
39	0.000000	123
40	0.000000	123
41	0.000000	123
42	0.000000	123
43	0.000000	123
44	0.000000	123
45	0.000000	123
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96	0.000000	123
97	0.000000	123
98	0.000000	123
99	0.000000	123
100	0.000000	123

Geneset  
 fasting genes meth UP  
 HORVATH\_age\_genes meth DOWN  
 TESCHENDORFF\_age\_hypermethylated

Rank	p-value	#in/all
1	0.000000	123
2	0.000000	123
3	0.000000	123
4	0.000000	123
5	0.000000	123
6	0.000000	123
7	0.000000	123
8	0.000000	123
9	0.000000	123
10	0.000000	123
11	0.000000	123
12	0.000000	123
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27	0.000000	123
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32	0.000000	123
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36	0.000000	123
37	0.000000	123
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39	0.000000	123
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41	0.000000	123
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43	0.000000	123
44	0.000000	123
45	0.000000	123
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47	0.000000	123
48	0.000000	123
49	0.000000	123
50	0.000000	123
51	0.000000	123
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53	0.000000	123
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66	0.000000	123
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69	0.000000	123
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87	0.000000	123
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90	0.000000	123
91	0.000000	123
92	0.000000	123
93	0.000000	123
94	0.000000	123
95	0.000000	123
96	0.000000	123
97	0.000000	123
98	0.000000	123
99	0.000000	123
100	0.000000	123

Geneset  
 geneset\_nanostring  
 LIU\_PROSTATE\_CANCER\_UP  
 LIU\_COMMON\_CANCER\_GENES  
 pan\_cancer\_driver\_geneset\_nanostring  
 pan\_cancer\_tsg\_geneset\_nanostring  
 pan\_cancer\_tsb\_geneset\_nanostring  
 KUIPER\_MM\_poor\_survival  
 Pan\_cancer\_tsg\_geneset\_nanostring  
 LIU\_PROSTATE\_CANCER\_DN  
 Smpoke\_Normal\_vs\_Adenoma  
 Smpoke\_B\_C\_index  
 Lembecke\_Colon\_Inflammation  
 Hodges\_undifferentiated\_cancer  
 SOTIRIOU\_BREAST\_CANCER\_GRADE\_1\_VS\_3\_DN  
 LIU\_LIVER\_CANCER  
 WANG\_ER\_DN

Rank	p-value	#in/all
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2	0.000000	123
3	0.000000	123
4	0.000000	123
5	0.000000	123
6	0.000000	123
7	0.000000	123
8	0.000000	123
9	0.000000	123
10	0.000000	123
11	0.000000	123
12	0.000000	123
13	0.000000	123
14	0.000000	123
15	0.000000	123
16	0.000000	123
17	0.000000	123
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19	0.000000	123
20	0.000000	123
21	0.000000	123
22	0.000000	123
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39	0.000000	123
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41	0.000000	123
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43	0.000000	123
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45	0.000000	123
46	0.000000	123
47	0.000000	123
48	0.000000	123
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98	0.000000	123
99	0.000000	123
100	0.000000	123

Geneset  
 HEIROUN\_Colon  
 ZNF\_Colon  
 Ques1\_Colon  
 Pan\_cancer\_tsg\_geneset\_nanostring  
 Resprc\_Colon  
 Pan\_cancer\_tsg\_geneset\_nanostring  
 Lembecke\_TCGA\_expr\_kmeans\_N\_CIMP\_H\_DN  
 Boland\_CRC\_TCGA\_corr\_S\_normal\_DN  
 TCGA\_Mutated\_in\_CRC\_mismatch-repair\_genes  
 Boland\_CRC\_MMR-system  
 Budinska\_T\_Mixed\_up  
 Lembecke\_TCGA\_meth\_kmeans\_A\_Cluster4\_DN  
 Heisen\_MMR-secondary\_mutations\_DNA-repair  
 TCGA\_Mutated\_in\_CRC\_not-hypermethylated  
 Pan\_cancer\_tsg\_geneset\_nanostring  
 Boland\_CRC\_TCGA\_corr\_H\_mss\_up\_msi-h\_DN  
 TSSP\_Colon

Rank	p-value	#in/all
1	0.000000	123
2	0.000000	123
3	0.000000	123
4	0.000000	123
5	0.000000	123
6	0.000000	123
7	0.000000	123
8	0.000000	123
9	0.000000	123
10	0.000000	123
11	0.000000	123
12	0.000000	123
13	0.000000	123
14	0.000000	123
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39	0.000000	123
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41	0.000000	123
42	0.000000	123
43	0.000000	123
44	0.000000	123
45	0.000000	123
46	0.000000	123
47	0.000000	123
48	0.000000	123
49	0.000000	

# Correlation Clusters

## Spot Summary: Q

# metagenes = 56  
# genes = 700

<r> metagenes = 0.94

<r> genes = 0.5

beta: r2= 0.03 / log p= -0.33

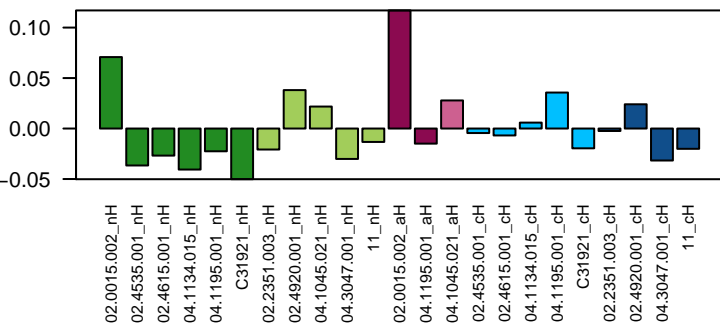
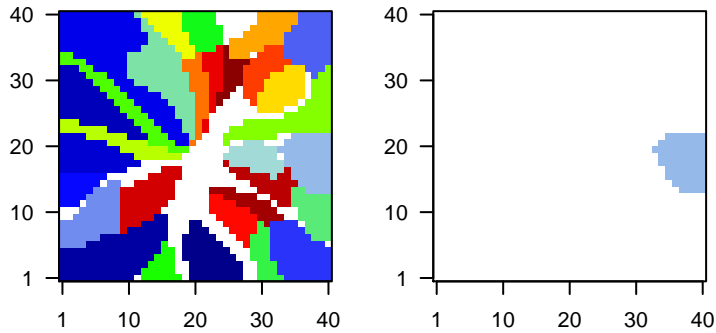
# samples with spot = 2 ( 8.7 %)

MLH1\_normHNPCC : 1 ( 16.7 %)

MLH1\_adenomaHNPCC : 1 ( 50 %)

### Overview Map

### Spot

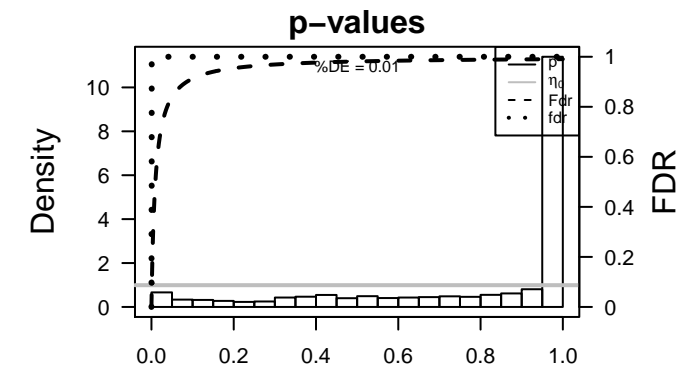


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG000002	0.86	-0.35	0.69	cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Acc:HGNC:10475]
2	ENSG000002	0.8	-0.27	0.72	CRIP1 cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Acc:HGNC:10475]
3	ENSG000001	0.56	-0.1	0.73	TNNC2 troponin C type 2 (fast) [Source:HGNC Symbol;Acc:HGNC:11676]
4	ENSG000001	0.53	-0.22	0.85	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit [Source:HGNC Symbol;Acc:HGNC:10475]
5	ENSG000001	0.49	-0.13	0.63	RCN3 reticulocalbin 3, EF-hand calcium binding domain [Source:HGNC Symbol;Acc:HGNC:10475]
6	ENSG000001	0.49	-0.42	0.55	RNASE1 ribonuclease, RNase A family, 1 (pancreatic) [Source:HGNC Symbol;Acc:HGNC:10475]
7	ENSG000001	0.47	-0.11	0.44	URAD ureidoimidazole (2-oxo-4-hydroxy-4-carboxy-5-) decarboxylase [Source:HGNC Symbol;Acc:HGNC:10475]
8	ENSG000001	0.43	-0.19	0.68	MMAB methylmalonic aciduria (cobalamin deficiency) cblB type [Source:HGNC Symbol;Acc:HGNC:10475]
9	ENSG000001	0.41	-0.08	0.8	NDUFS6 NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa [Source:HGNC Symbol;Acc:HGNC:10475]
10	ENSG000001	0.4	-0.23	0.94	NDUFA1 dual oxidase maturation factor 1 [Source:HGNC Symbol;Acc:HGNC:10475]
11	ENSG000001	0.38	-0.05	0.62	DUOXA1 dual oxidase maturation factor 1 [Source:HGNC Symbol;Acc:HGNC:10475]
12	ENSG000001	0.38	-0.1	0.83	PIGU phosphatidylinositol glycan anchor biosynthesis, class U [Source:HGNC Symbol;Acc:HGNC:10475]
13	ENSG000001	0.38	-0.15	0.92	FAM166A family with sequence similarity 166, member A [Source:HGNC Symbol;Acc:HGNC:10475]
14	ENSG000001	0.37	-0.27	0.73	DUSP23 dual specificity phosphatase 23 [Source:HGNC Symbol;Acc:HGNC:10475]
15	ENSG000001	0.37	-0.15	0.85	CDC26 cell division cycle 26 [Source:HGNC Symbol;Acc:HGNC:10475]
16	ENSG000002	0.36	-0.19	0.79	FIS1 fission, mitochondrial 1 [Source:HGNC Symbol;Acc:HGNC:10475]
17	ENSG000001	0.35	-0.18	0.59	RAB24 RAB24, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:10475]
18	ENSG000001	0.35	-0.19	0.93	MRPL27 mitochondrial ribosomal protein L27 [Source:HGNC Symbol;Acc:HGNC:10475]
19	ENSG000000	0.34	-0.17	0.89	NDUFB2 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2, 8kDa [Source:HGNC Symbol;Acc:HGNC:10475]
20	ENSG000001	0.34	-0.17	0.54	VKORC1 vitamin K epoxide reductase complex, subunit 1 [Source:HGNC Symbol;Acc:HGNC:10475]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-62	504 / 8123	Colon TssF_Colon
2	1e-57	572 / 10475	Colon TssA_Colon
3	3e-48	539 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
4	2e-39	410 / 6761	Colon TssD2_Colon
5	9e-35	512 / 9930	Colon Tx_Colon
6	7e-29	241 / 3370	Brain Mid_Frontal_Lobe_ZNF
7	2e-26	502 / 10239	Brain Overlap_fetal_midbrain_ReprPC
8	3e-26	473 / 9390	Brain TxWk_Colon
9	4e-18	497 / 10800	Brain Overlap_fetal_midbrain_Quies
10	7e-17	198 / 3122	Brain TxEnhG1_Colon
11	2e-16	60 / 499	GSE/ STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN
12	3e-15	81 / 865	Brain Mid_Frontal_Lobe_Het
13	3e-13	301 / 5889	Color EnhWk1_Colon
14	6e-13	512 / 11791	Color Enh_Colon
15	2e-12	391 / 8358	Lymph HOPP_Active_promoter
16	1e-11	146 / 2342	TF ICGC_GabPcr2_targets
17	2e-11	265 / 5173	TF ICGC_Taf1_targets
18	8e-11	352 / 7491	Lymph HOPP_Txn_elongation
19	1e-10	143 / 2354	TF ICGC_SrfV0416101_targets
20	2e-10	26 / 165	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_13
21	3e-10	62 / 727	GSE/ KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_UP
22	3e-10	99 / 1441	CC mitochondrion
23	5e-10	231 / 4470	TF ICGC_Creb1_targets
24	2e-09	108 / 1680	Brain Fetal_ReprPCWk
25	1e-08	269 / 5578	TF ICGC_Stat5_targets
26	1e-08	87 / 1294	TF KIM_MYC_targets
27	1e-08	271 / 5643	Lymph HOPP_Txn_transition
28	5e-08	17 / 96	BP respiratory electron transport chain
29	6e-08	45 / 522	Chr Chr 20
30	7e-08	15 / 76	GSE/ REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHES
31	8e-08	35 / 356	GSE/ DAIRKEE_TERT_TARGETS_UP
32	9e-08	94 / 1503	TF ICGC_Six5_targets
33	1e-07	39 / 425	CC mitochondrial inner membrane
34	3e-07	11 / 44	CC mitochondrial respiratory chain complex I
35	4e-07	237 / 4969	TF ICGC_Atf2_targets
36	4e-07	19 / 136	BP cellular metabolic process
37	4e-07	258 / 5512	TF ICGC_Nficsc81335_targets
38	5e-07	207 / 4230	TF ICGC_Nfatc1_targets
39	5e-07	258 / 5526	TF ICGC_Pmlsc71910_targets
40	6e-07	220 / 4566	TF ICGC_Egr1_targets





# Correlation Clusters

## Spot Summary: R

# metagenes = 65  
# genes = 943

<r> metagenes = 0.94

<r> genes = 0.48

beta: r2= 0.01 / log p= -0.18

# samples with spot = 1 ( 4.3 %)

MLH1\_adenomaHNPCC : 1 ( 50 %)

## Spot Genelist

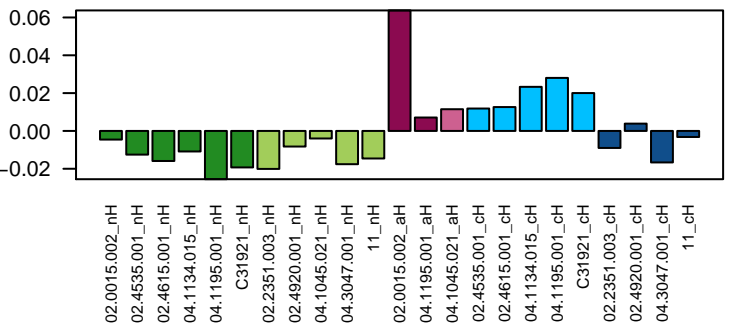
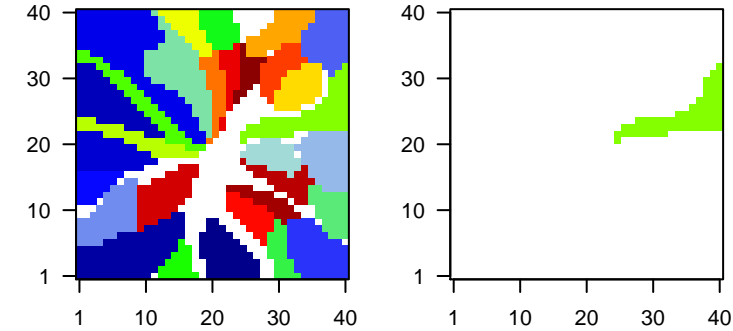
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	0.36	-0.04	0.77	PF4 platelet factor 4 [Source:HGNC Symbol;Acc:HGNC:8861]
2	ENSG0000001	0.35	-0.07	0.47	TMEM74B transmembrane protein 74B [Source:HGNC Symbol;Acc:HGNC:20448]
3	ENSG0000001	0.28	-0.06	0.91	LOC100506249 region alpha FG-GAP repeat containing 2 [Source:HGNC S
4	ENSG0000001	0.28	-0.11	0.68	USP5 ubiquitin specific peptidase 5 (isopeptidase T) [Source:HGNC
5	ENSG0000001	0.27	-0.07	0.82	NMB neuromedin B [Source:HGNC Symbol;Acc:HGNC:7842]
6	ENSG0000001	0.27	-0.07	0.89	LSM5 LSM5 homolog, U6 small nuclear RNA and mRNA degradati
7	ENSG0000001	0.26	-0.25	0.61	RPL38 ribosomal protein L38 [Source:HGNC Symbol;Acc:HGNC:10:
8	ENSG0000002	0.26	-0.07	0.72	RTEL1 regulator of telomere elongation helicase 1 [Source:HGNC S]
9	ENSG0000000	0.25	-0.04	0.52	WNT11 wingless-type MMTV integration site family, member 11 [Sou
10	ENSG0000001	0.24	-0.09	0.51	PLCB4 phospholipase C, beta 4 [Source:HGNC Symbol;Acc:HGNC:6:
11	ENSG0000001	0.24	-0.05	0.9	F12 coagulation factor XII (Hageman factor) [Source:HGNC Symb
12	ENSG0000001	0.23	-0.12	0.73	C20orf27 chromosome 20 open reading frame 27 [Source:HGNC Synt
13	ENSG0000001	0.23	-0.1	0.81	PELP1 proline, glutamate and leucine rich protein 1 [Source:HGNC S
14	ENSG0000000	0.23	-0.19	0.67	ERP29 endoplasmic reticulum protein 29 [Source:HGNC Symbol;Acc
15	ENSG0000001	0.22	-0.13	0.82	EIF3B eukaryotic translation initiation factor 3, subunit B [Source:HG
16	ENSG0000001	0.22	-0.06	0.64	LYG1 lysozyme G-like 1 [Source:HGNC Symbol;Acc:HGNC:27014]
17	ENSG0000001	0.22	-0.14	0.79	JMJD8 jumonji domain containing 8 [Source:HGNC Symbol;Acc:HGNC
18	ENSG0000001	0.22	-0.14	0.63	EEF1D eukaryotic translation elongation factor 1 delta (guanine nucle
19	ENSG0000002	0.21	-0.13	0.8	CKLF chemokine-like factor [Source:HGNC Symbol;Acc:HGNC:13:
20	ENSG0000001	0.21	-0.09	0.9	WDR74 WD repeat domain 74 [Source:HGNC Symbol;Acc:HGNC:25:

## Geneset Overrepresentation

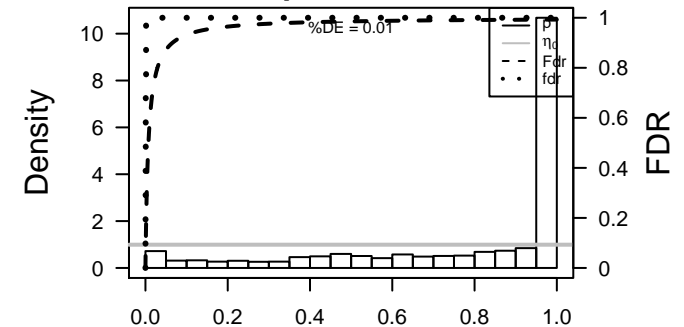
Rank	p-value	#in/all	Geneset
1	2e-28	95 / 550	Cancer_Lembcke_Normal vs Adenoma
2	1e-13	496 / 8123	Colon_TssF_Colon
3	6e-13	77 / 668	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
4	1e-11	84 / 807	Lymp_Hopp_June14_MMML937_tumors+controls_group.overexpression_D_cell li
5	2e-11	84 / 811	Lymp_WIRTH_lymphoma937_spot D
6	2e-09	60 / 546	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
7	2e-09	408 / 6761	Colon_TssD2_Colon
8	3e-09	125 / 1549	TF_ICGC_Myc_targets
9	6e-09	34 / 233	Lymp_Hopp_June14_MMML937_tumors+controls_group.overexpression_B_cell li
10	3e-08	84 / 944	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
11	7e-08	552 / 9923	Brain_Overlap_fetal_midbrain_K9K27me3
12	1e-07	476 / 8358	Lymp_HOPP_Active_promoter
13	2e-07	32 / 240	Lymp_WIRTH_lymphoma937_spot B
14	2e-07	35 / 282	GSE/ MANALO_HYPOXIA_DN
15	3e-07	73 / 830	Color_Pentrack_CRC_TCGA_corr_R_normal_DN
16	4e-07	68 / 754	GSE/ MARTENS_TRETINOIN_RESPONSE_DN
17	5e-07	277 / 4470	TF_ICGC_Creb1_targets
18	5e-07	29 / 216	GSE/ KAUFFMANN_DNA_REPAIR_GENES
19	5e-07	36 / 304	BP_DNA_repair
20	8e-07	113 / 1503	TF_ICGC_Six5_targets
21	2e-06	272 / 4436	TF_ICGC_Zeb1_targets
22	3e-06	329 / 5578	TF_ICGC_Stat5_targets
23	3e-06	567 / 10475	Color_TssA_Colon
24	4e-06	627 / 11791	Color_Enh_Colon
25	4e-06	6 / 11	BP_RNA_methylation
26	6e-06	21 / 145	BP_DNA_replication
27	6e-06	313 / 5308	TF_ICGC_Tcf12_targets
28	7e-06	18 / 113	MF_methyltransferase_activity
29	8e-06	156 / 2342	TF_ICGC_GabPcr2_targets
30	9e-06	34 / 316	GSE/ DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP
31	9e-06	305 / 5173	TF_ICGC_Taf1_targets
32	1e-05	30 / 263	GSE/ LU_EZH2_TARGETS_UP
33	1e-05	16 / 95	GSE/ REACTOME_CHROMOSOME_MAINTENANCE
34	2e-05	210 / 3370	Brain_Mid_Frontal_Lobe_ZNF
35	2e-05	6 / 13	CC_Fanconi_anaemia_nuclear_complex
36	2e-05	10 / 41	MF_tRNA_binding
37	2e-05	68 / 850	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
38	3e-05	313 / 5393	TF_ICGC_Sp1_targets
39	3e-05	11 / 52	GSE/ REACTOME_TELOMERE_MAINTENANCE
40	4e-05	10 / 45	GSE/ PID_FANCONI_PATHWAY

## Overview Map

## Spot



## p-values







# Correlation Clusters

## Spot Summary: S

# metagenes = 32  
# genes = 390

<r> metagenes = 0.93  
<r> genes = 0.44  
beta: r2= 0 / log p= -0.05

# samples with spot = 0 ( 0 %)

## Spot Genelist

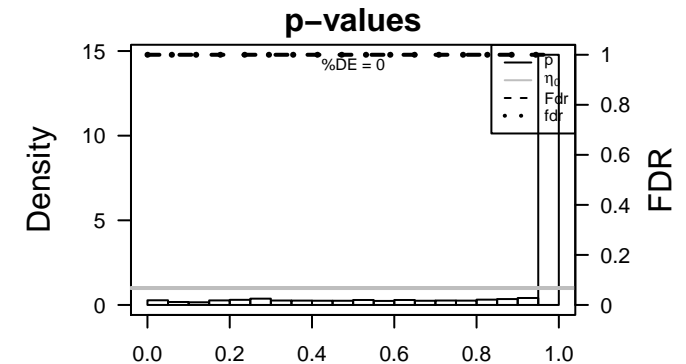
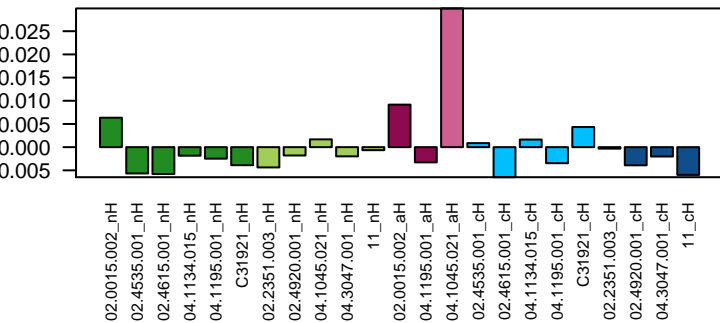
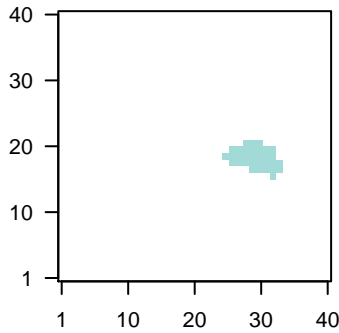
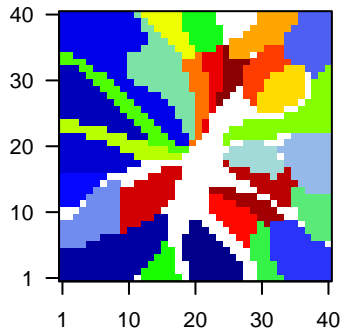
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG000002	0.16	-0.04	0.74	NSUN6 NOP2/Sun domain family, member 6 [Source:HGNC Symbol;]
2	ENSG000002	0.15	-0.05	0.86	MROH7-TTC4 readthrough (NMD candidate) [Source:HGNC]
3	ENSG000001	0.14	-0.06	0.77	GALNT1 polypeptide N-acetylgalactosaminyltransferase 10 [Source:H]
4	ENSG000001	0.14	-0.07	0.51	DNAJA4 DnaJ (Hsp40) homolog, subfamily A, member 4 [Source:HGN]
5	ENSG000001	0.14	-0.04	0.68	MME11 membrane metallo-endopeptidase-like 1 [Source:HGNC Syr]
6	ENSG000001	0.13	-0.03	0.79	TMEM178 transmembrane protein 178A [Source:HGNC Symbol;Acc:HG]
7	ENSG000001	0.12	-0.03	0.76	
8	ENSG000001	0.11	-0.02	0.82	ADAMTS5 ADAMTS-like 5 [Source:HGNC Symbol;Acc:HGNC:27912]
9	ENSG000001	0.11	-0.1	0.64	ECHDC2 enoyl CoA hydratase domain containing 2 [Source:HGNC Syr]
10	ENSG000001	0.1	-0.02	0.82	C6orf52 chromosome 6 open reading frame 52 [Source:HGNC Symbc]
11	ENSG000001	0.1	-0.01	0.72	SERPINA5 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, ai
12	ENSG000001	0.1	-0.04	0.67	SAMD14 sterile alpha motif domain containing 14 [Source:HGNC Syml]
13	ENSG000002	0.1	-0.03	0.73	AMY2A amylase, alpha 2A (pancreatic) [Source:HGNC Symbol;Acc:H]
14	ENSG000001	0.1	-0.02	0.97	DCST2 DC-STAMP domain containing 2 [Source:HGNC Symbol;Acc:
15	ENSG000001	0.1	-0.06	0.67	STK25 serine/threonine kinase 25 [Source:HGNC Symbol;Acc:HGNC]
16	ENSG000001	0.09	-0.04	0.88	ZNF789 zinc finger protein 789 [Source:HGNC Symbol;Acc:HGNC:27:
17	ENSG000001	0.09	-0.03	0.77	RNF123 ring finger protein 123 [Source:HGNC Symbol;Acc:HGNC:21:
18	ENSG000002	0.09	-0.04	0.58	COLCA2 colorectal cancer associated 2 [Source:HGNC Symbol;Acc:H]
19	ENSG000001	0.09	-0.02	0.43	GALNT14 polypeptide N-acetylgalactosaminyltransferase 14 [Source:H]
20	ENSG000000	0.09	-0.01	0.8	TNMD tenomodulin [Source:HGNC Symbol;Acc:HGNC:17757]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-06	91 / 2947	Colon ReprPCWk_Colon
2	8e-06	99 / 3406	Colon ReprPC_Colon
3	9e-06	4 / 8	GSE/ REACTOME_DIGESTION_OF_DIETARY_CARBOHYDRATE
4	2e-05	8 / 60	Colon Pentrack_CRC_TCGA_corr_H_mss_UP_msi-h_DN
5	3e-05	22 / 431	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_2
6	1e-04	63 / 2041	Colon EnhP_Colon
7	2e-04	13 / 202	Tissu WIRTH_Testis
8	4e-04	4 / 19	MF cation binding
9	4e-04	4 / 19	CC sperm principal piece
10	4e-04	10 / 142	CC cilium
11	6e-04	83 / 3064	Glio Hopp_Sturm_GBM_Epi3_no_zentr_2_adult_UP_G34_DN
12	8e-04	3 / 10	Color Juehling_HNPCC-mutated-in-5
13	1e-03	6 / 62	GSE/ MIKKELSEN_MEF_LCP_WITH_H3K27ME3
14	1e-03	44 / 1425	Chr Chr 19
15	1e-03	4 / 26	GSE/ REACTOME_STRIATED_MUSCLE_CONTRACTION
16	2e-03	15 / 326	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCCINOMA_DN
17	2e-03	5 / 46	GSE/ DOANE_BREAST_CANCER_ESR1_DN
18	2e-03	6 / 68	CC keratin filament
19	2e-03	37 / 1178	Color ZNF_Colon
20	3e-03	39 / 1281	Color HetRpts_Colon
21	3e-03	26 / 754	Color Lembcke_TCGA-expr_kmeans_H_CIMP.H_UP_Cluster3_DN
22	3e-03	51 / 1798	TF HEBENSTREIT_low expression TF
23	3e-03	5 / 52	Color Pentrack_CRC_TCGA_corr_S_normal_DN
24	3e-03	53 / 1890	Brain Overlap_fetal_midbrain_Tssf
25	3e-03	42 / 1418	GSE/ ZWANG_TRANSIENTLY_UP_BY_2ND_EGF_PULSE_ONLY
26	4e-03	6 / 78	BP protein O-linked glycosylation
27	4e-03	3 / 17	MF sodium channel activity
28	4e-03	4 / 34	GSE/ CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_UP
29	4e-03	22 / 616	Color Lembcke_TCGA-expr_kmeans_M_CIMP.H_DN
30	5e-03	4 / 36	BP muscle filament sliding
31	5e-03	46 / 1624	GSE/ DODD_NASOPHARYNGEAL_CARCCINOMA_UP
32	5e-03	2 / 6	GSE/ WEBER_METHYLATED_LCP_IN_SPERM_DN
33	5e-03	2 / 6	GSE/ BERGER_MBD2_TARGETS
34	6e-03	33 / 1084	Brain Overlap_fetal_midbrain_EnhG
35	6e-03	72 / 2820	Brain Mid_Frontal_Lobe_HetRpts
36	7e-03	7 / 117	BP cytoskeleton organization
37	8e-03	48 / 1753	Color Het_Colon
38	8e-03	3 / 22	BP gamete generation
39	8e-03	4 / 42	BP fertilization
40	9e-03	3 / 23	GSE/ STAMBOLSKY_RESPONSE_TO_VITAMIN_D3_DN

### Overview Map

### Spot





# Correlation Clusters

## Spot Summary: T

# metagenes = 35  
# genes = 463

<r> metagenes = 0.96

<r> genes = 0.54

beta: r2= 0.11 / log p= -0.91

# samples with spot = 6 ( 26.1 %)

MLH1\_normHNPCC : 1 ( 16.7 %)

other\_normHNPCC : 1 ( 20 %)

MLH1\_adenomaHNPCC : 1 ( 50 %)

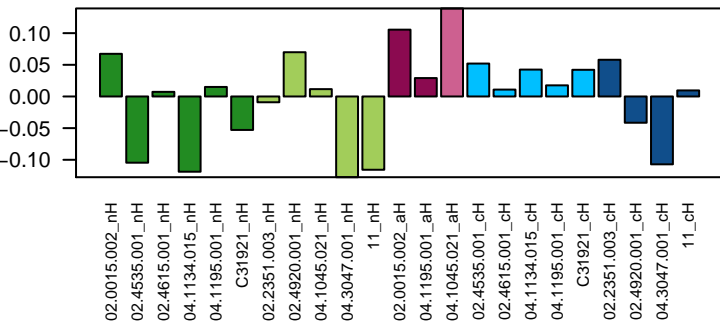
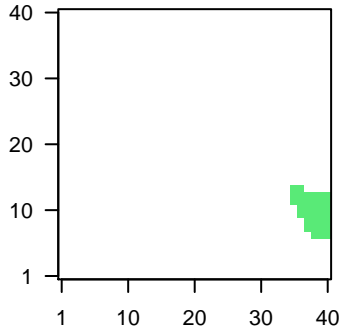
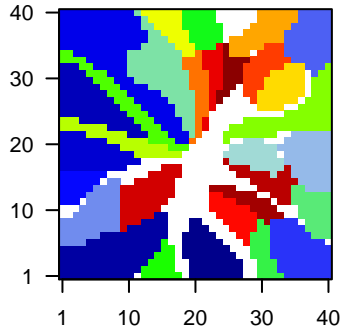
other\_adenomaHNPCC : 1 ( 100 %)

MLH1\_cancerHNPCC : 1 ( 20 %)

other\_cancerHNPCC : 1 ( 25 %)

## Overview Map

## Spot

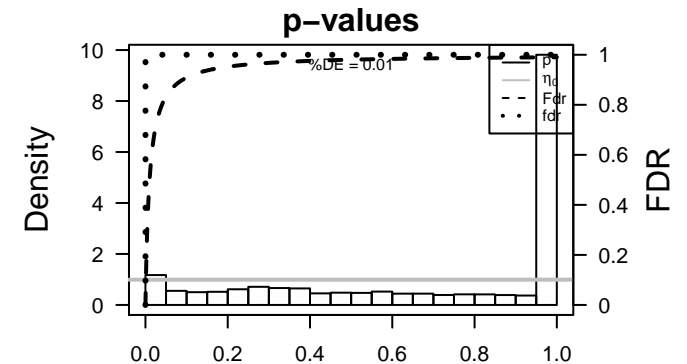


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	0.7	-0.03	0.41	CTAG2 cancer/testis antigen 2 [Source:HGNC Symbol;Acc:HGNC:24
2	ENSG0000001	0.65	-0.16	0.69	HOXB5 homeobox B5 [Source:HGNC Symbol;Acc:HGNC:5116]
3	ENSG0000001	0.63	-0.26	0.78	ROMO1 reactive oxygen species modulator 1 [Source:HGNC Symbol;
4	ENSG0000001	0.6	-0.09	0.61	FABP6 fatty acid binding protein 6, ileal [Source:HGNC Symbol;Acc:
5	ENSG0000001	0.56	-0.24	0.57	IDH1 isocitrate dehydrogenase 1 (NADP+), soluble [Source:HGNC
6	ENSG0000000	0.5	-0.23	0.52	NOX1 NADPH oxidase 1 [Source:HGNC Symbol;Acc:HGNC:7889]
7	ENSG0000001	0.5	-0.39	0.7	COX6B1 cytochrome c oxidase subunit VIb polypeptide 1 (ubiquitous)
8	ENSG0000001	0.47	-0.18	0.59	SPDEF SAM pointed domain containing ETS transcription factor [Sou
9	ENSG0000001	0.46	-0.42	0.43	MAOA monoamine oxidase A [Source:HGNC Symbol;Acc:HGNC:68
10	ENSG0000001	0.46	-0.24	0.73	GJB1 gap junction protein, beta 1, 32kDa [Source:HGNC Symbol;A
11	ENSG0000001	0.45	-0.26	0.73	LAMTORlate endosomal/lysosomal adaptor, MAPK and MTOR activat
12	ENSG0000000	0.45	-0.2	0.62	CFTR cystic fibrosis transmembrane conductance regulator (ATP-bi
13	ENSG0000001	0.43	-0.33	0.55	MDK midkine (neurite growth-promoting factor 2) [Source:HGNC S
14	ENSG0000001	0.42	-0.35	0.77	ANXA2 annexin A2 [Source:HGNC Symbol;Acc:HGNC:537]
15	ENSG0000001	0.41	-0.37	0.91	UQCQR ubiquinol-cytochrome c reductase, complex III subunit VII, 9:
16	ENSG0000001	0.41	-0.23	0.65	HOXB9 homeobox B9 [Source:HGNC Symbol;Acc:HGNC:5120]
17	ENSG0000001	0.41	-0.34	0.83	ECHS1 enoyl CoA hydratase, short chain, 1, mitochondrial [Source:H
18	ENSG0000001	0.4	-0.26	0.72	FOXH1 forkhead box H1 [Source:HGNC Symbol;Acc:HGNC:3814]
19	ENSG0000001	0.4	-0.27	0.96	NAPRT nicotinate phosphoribosyltransferase [Source:HGNC Symbol;
20	ENSG0000001	0.4	-0.25	0.69	UBXN11 UBX domain protein 11 [Source:HGNC Symbol;Acc:HGNC:3:

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-33	320 / 8123	Colon TssF_Colon
2	2e-29	173 / 3122	Colon TxEnhG1_Colon
3	2e-25	165 / 3112	Colon EnhA_Colon
4	3e-24	353 / 10475	Colon TssA_Colon
5	7e-22	336 / 9930	Colon Tx_Colon
6	4e-21	259 / 6761	Colon TssD2_Colon
7	1e-20	39 / 251	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP
8	5e-20	95 / 1441	CC mitochondrion
9	2e-19	369 / 11791	Colon Enh_Colon
10	3e-19	48 / 425	CC mitochondrial inner membrane
11	1e-18	33 / 198	HM HALLMARK_OXIDATIVE_PHOSPHORYLATION
12	1e-17	25 / 111	GSE/ KEGG_OXIDATIVE_PHOSPHORYLATION
13	1e-17	46 / 429	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_UP
14	7e-16	22 / 96	BP respiratory electron transport chain
15	1e-15	221 / 5889	Colon EnhWk1_Colon
16	2e-15	25 / 136	BP cellular metabolic process
17	5e-15	20 / 83	GSE/ MOOTHA_VOXPPOS
18	6e-15	84 / 1418	BP small molecule metabolic process
19	1e-14	19 / 76	GSE/ REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHES
20	2e-14	22 / 111	GSE/ REACTOME_TCA_CYCLE_AND_RESPIRATORY_ELECTRON_TRANSP
21	5e-14	61 / 877	Colon TxEnhG2_Colon
22	1e-13	21 / 109	GSE/ KEGG_PARKINSONS_DISEASE
23	2e-13	25 / 167	GSE/ KEGG_HUNTINGTONS_DISEASE
24	5e-13	16 / 60	GSE/ REACTOME_RESPIRATORY_ELECTRON_TRANSPORT
25	2e-12	23 / 151	GSE/ KEGG_ALZHEIMERS_DISEASE
26	5e-12	26 / 207	GSE/ WONG_MITOCHONDRIA_GENE_MODULE
27	5e-12	37 / 412	GSE/ LIM_MAMMARY_STEM_CELL_DN
28	7e-12	38 / 437	GSE/ MOOTHA_MITOCHONDRIA
29	9e-12	37 / 420	GSE/ MOOTHA_HUMAN_MITODB_6_2002
30	2e-11	294 / 9390	Colon TxWk_Colon
31	2e-10	113 / 2638	CC extracellular exosome
32	4e-10	36 / 459	GSE/ SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_UP
33	9e-10	150 / 3977	Brain Mid_Frontal_Lobe_ReprPC
34	9e-10	33 / 404	GSE/ MOOTHA_PGC
35	3e-09	20 / 165	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_13
36	1e-08	35 / 495	GSE/ ENK_UV_RESPONSE_KERATINOCYTE_UP
37	2e-08	158 / 4436	TF ICGC_Zeb1_targets
38	2e-08	17 / 132	GSE/ WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_UP
39	4e-08	180 / 5308	TF ICGC_Tcf12_targets
40	4e-08	111 / 2820	Brain Mid_Frontal_Lobe_HetRpts





# Correlation Clusters

## Spot Summary: U

# metagenes = 37  
# genes = 404

<r> metagenes = 0.95

<r> genes = 0.52

beta: r2= 0.01 / log p= -0.22

# samples with spot = 1 ( 4.3 %)

MLH1\_cancerHNPCC : 1 ( 20 %)

## Spot Genelist

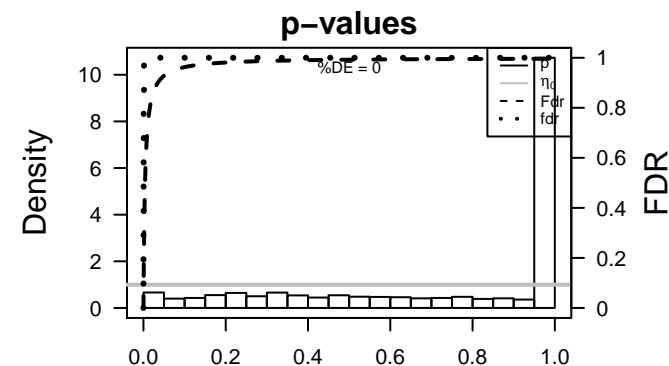
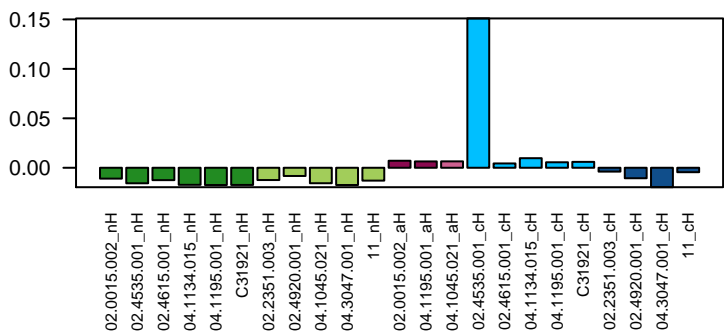
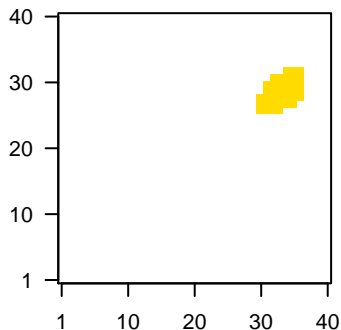
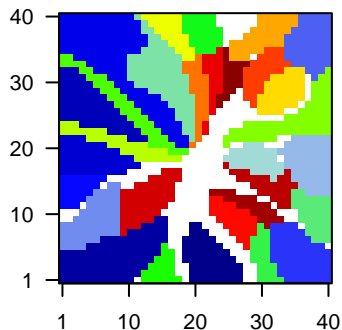
Rank	ID	max e	r	min e	Description
1	ENSG000000	1.19	-0.05	0.96	PAGE1 P antigen family, member 1 (prostate associated) [Source:HGNC Symbol;Acc:HGNC:31907]
2	ENSG000002	0.98	-0.05	0.96	GAGE12G antigen 12G [Source:HGNC Symbol;Acc:HGNC:31907]
3	ENSG000002	0.93	-0.04	0.96	GAGE2DG antigen 12F [Source:HGNC Symbol;Acc:HGNC:31906]
4	ENSG000002	0.93	-0.04	0.96	GAGE12G antigen 12J [Source:HGNC Symbol;Acc:HGNC:17778]
5	ENSG000001	0.79	-0.13	0.76	RBP4 retinol binding protein 4, plasma [Source:HGNC Symbol;Acc:HGNC:31905]
6	ENSG000002	0.79	-0.04	0.96	GAGE12E antigen 12E [Source:HGNC Symbol;Acc:HGNC:31905]
7	ENSG000001	0.73	-0.17	0.68	EXOC3 exocyst complex component 3 [Source:HGNC Symbol;Acc:HGNC:4451]
8	ENSG000001	0.72	-0.07	0.91	GPC3 glypican 3 [Source:HGNC Symbol;Acc:HGNC:4451]
9	ENSG000001	0.72	-0.03	0.96	MAGEA6melanoma antigen family A6 [Source:HGNC Symbol;Acc:HGNC:28402]
10	ENSG000002	0.71	-0.03	0.96	GAGE12D antigen 12D [Source:HGNC Symbol;Acc:HGNC:31904]
11	ENSG000002	0.71	-0.03	0.96	MAGEA3melanoma antigen family A3 [Source:HGNC Symbol;Acc:HGNC:31908]
12	ENSG000002	0.66	-0.03	0.96	GAGE12H antigen 12H [Source:HGNC Symbol;Acc:HGNC:31908]
13	ENSG000002	0.64	-0.03	0.96	CYP2B6 cytochrome P450, family 2, subfamily B, polypeptide 6 [Source:HGNC Symbol;Acc:HGNC:4099]
14	ENSG000001	0.63	-0.09	0.84	GAGE8 G antigen 2A [Source:HGNC Symbol;Acc:HGNC:4099]
15	ENSG000001	0.63	-0.03	0.96	
16	ENSG000002	0.7	-0.03	0.96	
17	ENSG000002	0.66	-0.03	0.96	
18	ENSG000002	0.64	-0.03	0.96	
19	ENSG000001	0.63	-0.09	0.84	
20	ENSG000001	0.63	-0.03	0.96	

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	1e-29	100 / 1425	Chr Chr 19
2	5e-10	164 / 5393	TF ICGC_Sp1_targets
3	2e-08	190 / 6862	TF ICGC_Elf1_targets
4	9e-08	176 / 6322	TF ICGC_Pol2_targets
5	2e-07	175 / 6324	TF ICGC_Yy1_targets
6	2e-07	133 / 4436	TF ICGC_Zeb1_targets
7	2e-07	158 / 5578	TF ICGC_Stat5_targets
8	4e-07	192 / 7202	TF ICGC_Runx3_targets
9	4e-07	173 / 6313	TF ICGC_Pou2_targets
10	5e-07	100 / 3109	Colon TssP_Colon
11	1e-06	32 / 616	Colon Lembcke_TCGA-expr_kmeans_M_CIMP_H_DN
12	1e-06	36 / 746	Chr Chr X
13	1e-06	154 / 5526	TF ICGC_Pmlsc71910_targets
14	2e-06	132 / 4566	TF ICGC_Egr1_targets
15	5e-06	17 / 233	Lymp Hopp_June14_MMML937 tumors+controls_group.overexpression_B_cell li
16	7e-06	65 / 1867	TF HEBENSTREIT_high expression TF
17	8e-06	105 / 3511	TF ICGC_Rad21_targets
18	9e-06	169 / 6406	TF ICGC_Pax5_targets
19	1e-05	142 / 5173	TF ICGC_Taf1_targets
20	1e-05	163 / 6157	TF ICGC_Tcf3_targets
21	1e-05	126 / 4470	TF ICGC_Creb1_targets
22	2e-05	137 / 4987	TF ICGC_Bclaf101388_targets
23	2e-05	159 / 6005	TF ICGC_Mta3_targets
24	3e-05	139 / 5135	TF ICGC_Ebfc137065_targets
25	3e-05	16 / 240	Lymp WIRTH_lymphoma937_spot B
26	8e-05	32 / 766	TF ICGC_Atf3_targets
27	8e-05	13 / 182	GSE/ REACTOME_DNA_REPLICATION
28	1e-04	65 / 2041	Color EnhP_Colon
29	1e-04	10 / 117	GSE/ YEGNASUBRAMANIAN_PROSTATE_CANCER
30	1e-04	13 / 193	GSE/ WANG_CISPLATIN_RESPONSE_AND_XPC_UP
31	2e-04	139 / 5308	TF ICGC_Tcf12_targets
32	2e-04	12 / 175	GSE/ PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP
33	2e-04	4 / 16	GSE/ LOPEZ_MBD_TARGETS_IMPRINTED_AND_X_LINKED
34	3e-04	24 / 546	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
35	3e-04	8 / 85	GSE/ PYEON_HPV_POSITIVE_TUMORS_UP
36	3e-04	272 / 11968	Color TssWk_Colon
37	3e-04	95 / 3406	Color ReprPC_Colon
38	4e-04	140 / 5453	TF ICGC_Foxm1_targets
39	5e-04	6 / 50	BP base-excision repair
40	5e-04	31 / 811	Lymp WIRTH_lymphoma937_spot D

### Overview Map

### Spot





# Correlation Clusters

## Spot Summary: V

# metagenes = 40  
# genes = 544

<r> metagenes = 0.96

<r> genes = 0.54

beta: r2= 0.06 / log p= -0.56

# samples with spot = 5 ( 21.7 %)

MLH1\_adenomaHNPCC : 1 ( 50 %)

MLH1\_cancerHNPCC : 4 ( 80 %)

## Spot Genelist

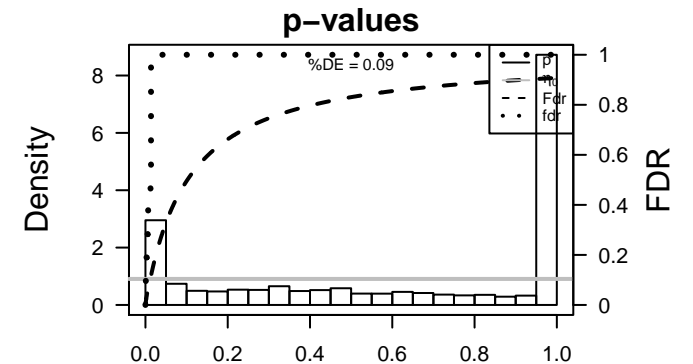
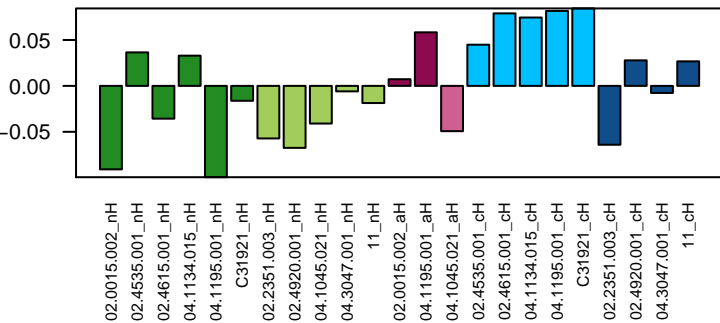
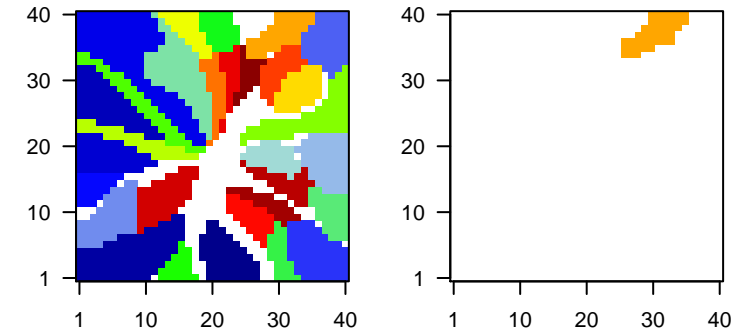
Rank	ID	max e	r	min e	Description
1	ENSG0000001	0.95	-0.08	0.22	RPS4Y1 ribosomal protein S4, Y-linked 1 [Source:HGNC Symbol;Acc:
2	ENSG0000001	0.75	-0.13	0.36	FAM83D family with sequence similarity 83, member D [Source:HGNC
3	ENSG0000001	0.71	-0.63	0.63	IFITM3 interferon induced transmembrane protein 3 [Source:HGNC S
4	ENSG0000001	0.68	-0.21	0.52	WARS tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:H
5	ENSG0000001	0.62	-0.43	0.62	IFITM2 interferon induced transmembrane protein 2 [Source:HGNC S
6	ENSG0000001	0.58	-0.04	0.41	TCN1 transcobalamin I (vitamin B12 binding protein, R binder family
7	ENSG0000001	0.57	-0.35	0.57	HSPA8 heat shock 70kDa protein 8 [Source:HGNC Symbol;Acc:HGN
8	ENSG0000000	0.54	-0.26	0.56	FXYS5 FXYS domain containing ion transport regulator 5 [Source:H
9	ENSG0000000	0.53	-0.29	0.61	HSP90A heat shock protein 90kDa alpha (cytosolic), class A member
10	ENSG0000001	0.51	-0.34	0.59	ALDH1B aldehyde dehydrogenase 1 family, member B1 [Source:HGNC
11	ENSG0000002	0.48	-0.31	0.75	RPL36A-HNRNP2 readthrough [Source:HGNC Symbol;Acc:
12	ENSG0000001	0.48	-0.33	0.73	TUBA1B tubulin, alpha 1b [Source:HGNC Symbol;Acc:HGNC:18809]
13	ENSG0000001	0.45	-0.14	0.57	TGFB1 transforming growth factor, beta-induced, 68kDa [Source:HG
14	ENSG0000001	0.43	-0.36	0.73	RPS16 ribosomal protein S16 [Source:HGNC Symbol;Acc:HGNC:10:
15	ENSG0000002	0.42	-0.1	0.53	FCGR3AFC fragment of IgG, low affinity IIIa, receptor (CD16a) [Source
16	ENSG0000002	0.42	-0.24	0.49	RPS29 ribosomal protein S29 [Source:HGNC Symbol;Acc:HGNC:10:
17	ENSG0000001	0.41	-0.09	0.54	WDR45BWD repeat domain 45B [Source:HGNC Symbol;Acc:HGNC:2:
18	ENSG0000002	0.4	-0.4	0.4	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H3I
19	ENSG0000002	0.4	-0.22	0.64	RPL36A ribosomal protein L36a [Source:HGNC Symbol;Acc:HGNC:1:
20	ENSG0000001	0.39	-0.2	0.68	LY6E lymphocyte antigen 6 complex, locus E [Source:HGNC Symb

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-72	189 / 1563	GSE/ PUJANA_BRCA1_PCC_NETWORK
2	5e-72	144 / 859	GSE/ LEE_BMP2_TARGETS_DN
3	4e-71	132 / 713	Colon Pentrack_CRC_TCGA_group_over_C_normal_DN
4	4e-71	412 / 7491	Lymph HOPP_Txn_elongation
5	4e-70	158 / 1091	MF poly(A) RNA binding
6	2e-68	169 / 1298	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
7	1e-63	114 / 582	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
8	7e-62	343 / 5643	Lymph HOPP_Txn_transition
9	2e-58	417 / 8358	Lymph HOPP_Active_promoter
10	6e-58	126 / 820	BP gene expression
11	3e-56	119 / 747	GSE/ PUJANA_CHEK2_PCC_NETWORK
12	1e-54	123 / 830	Color Pentrack_CRC_TCGA_corr_R_normal_DN
13	2e-52	454 / 10239	Brain Overlap_fetal_midbrain_ReprPC
14	1e-47	69 / 259	BP translation
15	2e-47	439 / 9930	Color Tx_Colon
16	9e-47	49 / 109	BP viral transcription
17	6e-46	52 / 132	GSE/ REACTOME_INFLUENZA_LIFE_CYCLE
18	3e-44	59 / 195	HM HALLMARK_MYC_TARGETS_V1
19	5e-44	46 / 102	GSE/ REACTOME_3_UTR_MEDIATED_TRANSLATIONAL_REGULATION
20	6e-44	64 / 242	GSE/ REACTOME_METABOLISM_OF_RNA
21	3e-43	445 / 10475	Color TssA_Colon
22	1e-42	51 / 142	BP translational initiation
23	1e-42	51 / 142	GSE/ REACTOME_TRANSLATION
24	8e-42	53 / 162	MF structural constituent of ribosome
25	2e-41	105 / 799	CC nucleolus
26	3e-41	44 / 101	BP translational elongation
27	6e-41	103 / 775	GSE/ WEI_MYCN_TARGETS_WITH_E_BOX
28	6e-41	50 / 144	BP viral life cycle
29	7e-41	53 / 168	CC ribosome
30	1e-40	414 / 9390	Color TxWk_Colon
31	1e-40	43 / 98	GSE/ REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND_REPLIC
32	4e-40	40 / 82	GSE/ REACTOME_PEPTIDE_CHAIN_ELONGATION
33	4e-40	41 / 88	BP translational termination
34	9e-40	44 / 108	BP SRP-dependent cotranslational protein targeting to membrane
35	1e-39	40 / 84	GSE/ KEGG_RIBOSOME
36	4e-39	55 / 198	GSE/ REACTOME_METABOLISM_OF_MRNA
37	6e-39	43 / 105	GSE/ REACTOME_SRP_DEPENDENT_COTRANSLATIONAL_PROTEIN_TARG
38	1e-37	70 / 370	GSE/ HSHAO_HOUSEKEEPING_GENES
39	3e-37	89 / 633	BP cellular protein metabolic process
40	8e-37	41 / 102	GSE/ REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED_BY_THE_E

## Overview Map

## Spot





### Brain

Rank	p-value	#in/all
1	0.000000	124
2	0.000000	124
3	0.000000	124
4	0.000000	124
5	0.000000	124
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94	0.000000	124
95	0.000000	124
96	0.000000	124
97	0.000000	124
98	0.000000	124
99	0.000000	124
100	0.000000	124

### Geneset

Geneset	#in/all
WOLFECT_overlap_genes	124
WOLFECT_overlap_genes_meth DOWN	124
WOLFECT_overlap_genes_meth UP	124
TESCHENDORFF_age_hypermethylated	124

### Rank

Rank	p-value	#in/all
1	0.000000	250
2	0.000000	250
3	0.000000	250
4	0.000000	250
5	0.000000	250
6	0.000000	250
7	0.000000	250
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9	0.000000	250
10	0.000000	250
11	0.000000	250
12	0.000000	250
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22	0.000000	250
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66	0.000000	250
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94	0.000000	250
95	0.000000	250
96	0.000000	250
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98	0.000000	250
99	0.000000	250
100	0.000000	250

### Geneset

Geneset	#in/all
gene expression	250
translation	250
viral transcription	250
translational initiation	250
translational elongation	250
viral life cycle	250
translational termination	250
SRP-dependent cotranslational protein targeting to membrane	250
cellular protein metabolic process	250
nuclear-transcribed mRNA catabolic process, nonsense-mediated decay	250
viral process	250
mitotic cell cycle	250
cytoplasmic translation	250
mRNA processing	250
RNA aminoacylation for protein translation	250
protein folding	250
G1/S transition of mitotic cell cycle	250
DNA repair	250
de novo posttranslational protein folding	250
maturation of SSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S r	250

### Rank

Rank	p-value	#in/all
1	0.000000	168
2	0.000000	168
3	0.000000	168
4	0.000000	168
5	0.000000	168
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95	0.000000	168
96	0.000000	168
97	0.000000	168
98	0.000000	168
99	0.000000	168
100	0.000000	168

### Geneset

Geneset	#in/all
ribosome	168
cytosolic large ribosomal subunit	168
nucleolus	168
cytosol	168
cytosolic small ribosomal subunit	168
ribonucleoprotein complex	168
cytoplasm	168
nucleus	168
extracellular exosome	168
small-subunit processome	168
focal adhesion	168
nuclear pore	168
small ribosomal subunit	168
mitochondrion	168
membrane	168
large ribosomal subunit	168
melanosome	168
polysome	168
eukaryotic 48S preinitiation complex	168

### Rank

Rank	p-value	#in/all
1	0.000000	613
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3	0.000000	613
4	0.000000	613
5	0.000000	613
6	0.000000	613
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16	0.000000	613
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18	0.000000	613
19	0.000000	613
20	0.000000	613
21	0.000000	613
22	0.000000	613
23	0.000000	613
24	0.000000	613
25	0.000000	613
26	0.000000	613
27	0.000000	613

# Correlation Clusters

## Spot Summary: W

# metagenes = 54  
# genes = 906

<r> metagenes = 0.93

<r> genes = 0.57

beta: r2= 0.15 / log p= -1.2

# samples with spot = 8 ( 34.8 %)

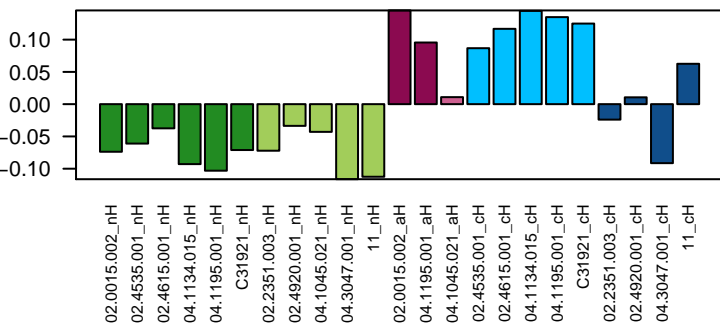
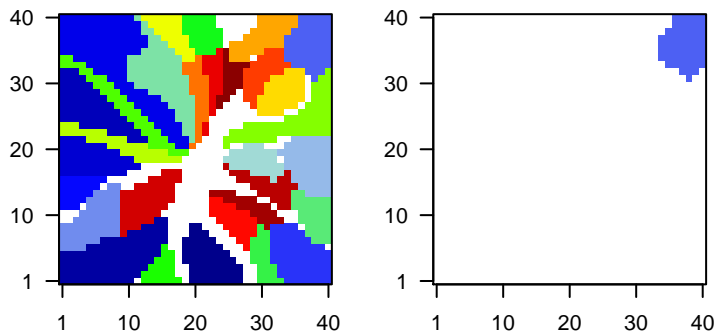
MLH1\_adenomaHNPCC : 2 ( 100 %)

MLH1\_cancerHNPCC : 5 ( 100 %)

other\_cancerHNPCC : 1 ( 25 %)

### Overview Map

### Spot

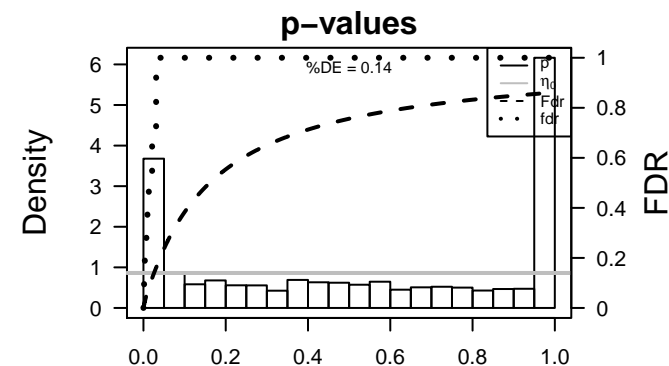


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	1.84	-0.57	0.57	REG1A regenerating islet-derived 1 alpha [Source:HGNC Symbol;Acc:HGNC:17190]
2	ENSG0000001	1.71	-0.34	0.49	ITLN1 intelectin 1 (galactofuranose binding) [Source:HGNC Symbol;Acc:HGNC:17190]
3	ENSG0000001	1.65	-0.75	0.6	OLFM4 olfactomedin 4 [Source:HGNC Symbol;Acc:HGNC:17190]
4	ENSG0000001	1.57	-0.24	0.58	REG3A regenerating islet-derived 3 alpha [Source:HGNC Symbol;Acc:HGNC:17190]
5	ENSG0000001	1.47	-0.28	0.63	MMP1 matrix metalloproteinase 1 [Source:HGNC Symbol;Acc:HGNC:17190]
6	ENSG0000001	1.33	-0.75	0.38	PLA2G2A phospholipase A2, group IIA (platelets, synovial fluid) [Source:HGNC Symbol;Acc:HGNC:17190]
7	ENSG0000001	1.31	-0.29	0.4	CXCL8 chemokine (C-X-C motif) ligand 8 [Source:HGNC Symbol;Acc:HGNC:17190]
8	ENSG0000001	1.27	-0.21	0.52	REG1B regenerating islet-derived 1 beta [Source:HGNC Symbol;Acc:HGNC:17190]
9	ENSG0000001	1.25	-0.21	0.58	DMBT1 deleted in malignant brain tumors 1 [Source:HGNC Symbol;Acc:HGNC:17190]
10	ENSG0000001	1.17	-0.36	0.48	REG4 regenerating islet-derived family, member 4 [Source:HGNC Symbol;Acc:HGNC:17190]
11	ENSG0000001	1.16	-0.2	0.61	MMP3 matrix metalloproteinase 3 [Source:HGNC Symbol;Acc:HGNC:17190]
12	ENSG0000001	1.15	-0.44	0.74	SPINK1 serine peptidase inhibitor, Kazal type 1 [Source:HGNC Symbol;Acc:HGNC:17190]
13	ENSG0000001	1.15	-0.35	0.48	CLCA1 chloride channel accessory 1 [Source:HGNC Symbol;Acc:HGNC:17190]
14	ENSG0000002	1.1	-0.18	0.56	TNFRSF6B tumor necrosis factor receptor superfamily, member 6b, decoy [Source:HGNC Symbol;Acc:HGNC:6526]
15	ENSG0000001	1.05	-0.66	0.85	LCN2 lipocalin 2 [Source:HGNC Symbol;Acc:HGNC:6526]
16	ENSG0000001	1.05	-0.87	0.76	AGR2 anterior gradient 2, protein disulphide isomerase family member 2 [Source:HGNC Symbol;Acc:HGNC:6526]
17	ENSG0000001	0.98	-0.17	0.41	SPP1 secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:HGNC:6526]
18	ENSG0000001	0.97	-0.41	0.62	SPINK4 serine peptidase inhibitor, Kazal type 4 [Source:HGNC Symbol;Acc:HGNC:6526]
19	ENSG0000001	0.91	-1	0.73	GPX2 glutathione peroxidase 2 [Source:HGNC Symbol;Acc:HGNC:6526]
20	ENSG0000001	0.87	-0.25	0.53	CYP2S1 cytochrome P450, family 2, subfamily S, polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:6526]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	4e-98	207 / 807	LympI Hopp_June14_MMLL937_tumors+controls_group.overexpression_D_cell_line
2	9e-96	205 / 811	LympI WIRTH_lymphoma937_spot D
3	1e-91	189 / 713	Colon Pentrack_CRC_TCGA_group.over_C_normal_DN
4	4e-84	91 / 145	Glio WILLSCHEER_GBM_Verhaak-CL_up (C)
5	2e-83	164 / 582	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_UP
6	2e-79	110 / 248	GSE/ KOBAYASHI_EGFR_SIGNALING_24HR_DN
7	1e-78	9 / 16	Cancer SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP
8	2e-76	121 / 327	GSE/ WONG_EMBRYONIC_STEM_CELL_CORE
9	6e-76	84 / 138	GSE/ ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER
10	9e-76	152 / 550	Cancer Lembecke_Normal vs Adenoma
11	1e-71	178 / 813	GSE/ GRADE_COLON_CANCER_UP
12	3e-68	634 / 8123	Colon TssF_Colon
13	7e-68	124 / 400	GSE/ VECCHI_GASTRIC_CANCER_EARLY_UP
14	5e-65	140 / 546	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
15	1e-62	125 / 446	GSE/ SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
16	3e-60	720 / 10475	Color TssA_Colon
17	8e-60	131 / 519	GSE/ BERENJENO_TRANSFORMED_BY_RHOA_UP
18	1e-59	104 / 316	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
19	1e-59	67 / 113	GSE/ WHITEFORD_PEDIATRIC_CANCER_MARKERS
20	2e-59	81 / 179	GSE/ GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP
21	9e-59	175 / 944	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
22	7e-56	225 / 1563	GSE/ PUJANA_BRCA1_PCC_NETWORK
23	3e-55	202 / 1298	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
24	7e-55	70 / 141	GSE/ CHANG_CYCLING_GENES
25	2e-54	139 / 645	GSE/ CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_DN
26	2e-53	96 / 303	GSE/ HORIUCHI_WTAP_TARGETS_DN
27	7e-53	156 / 830	Color Pentrack_CRC_TCGA_corr_R_normal_DN
28	6e-51	90 / 278	GSE/ BASAKI_YBX1_TARGETS_UP
29	7e-51	100 / 350	GSE/ RHEIN_ALL_GLUCOCORTICOID_THERAPY_DN
30	2e-50	89 / 275	GSE/ GRADE_COLON_AND_RECTAL_CANCER_UP
31	2e-49	143 / 747	GSE/ PUJANA_CHEK2_PCC_NETWORK
32	3e-48	55 / 95	GSE/ CROONQUIST_IL6_DEPRIVATION_DN
33	7e-48	151 / 850	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_DN
34	3e-47	74 / 197	HM HALLMARK_E2F_TARGETS
35	2e-46	91 / 317	Lymp TARTE_PlasmaBlast signature
36	1e-45	181 / 1228	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
37	3e-45	138 / 754	GSE/ MARTENS_TRETINOIN_RESPONSE_DN
38	8e-45	90 / 323	GSE/ PENG_GlutAMINE_DEPRIVATION_DN
39	5e-43	84 / 292	GSE/ MUELLER_PLURINET
40	2e-42	90 / 343	GSE/ WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN





# Correlation Clusters

## Spot Summary: X

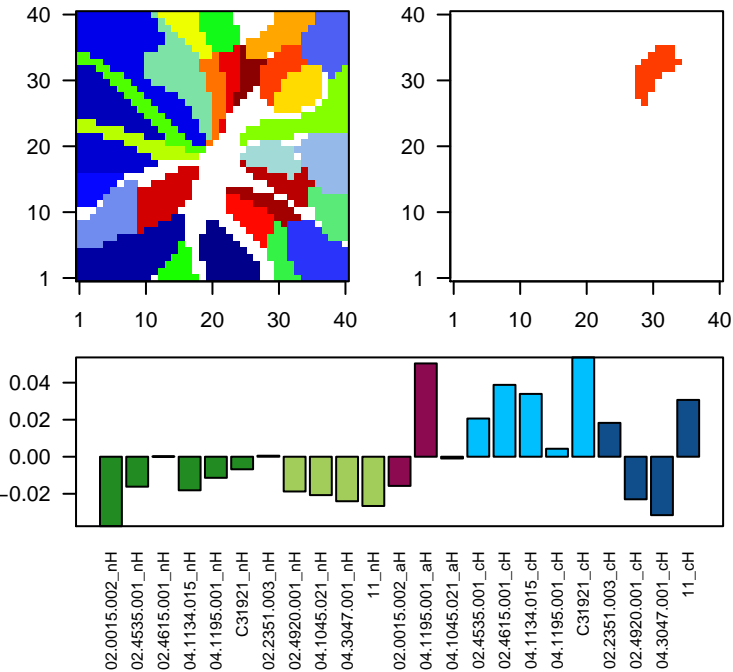
# metagenes = 32  
# genes = 375

<r> metagenes = 0.96  
<r> genes = 0.42  
beta: r2= 0.01 / log p= -0.22

# samples with spot = 2 ( 8.7 %)  
MLH1\_adenomaHNPCC : 1 ( 50 %)  
MLH1\_cancerHNPCC : 1 ( 20 %)

### Overview Map

### Spot

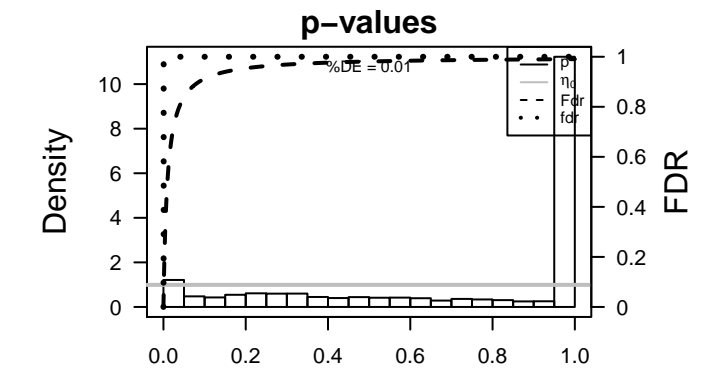


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	0.66	-0.21	0.31	NPIP15nuclear pore complex interacting protein family, member B15
2	ENSG0000001	0.43	-0.03	0.27	SLC39A2solute carrier family 39 (zinc transporter), member 2 [Source:UniProtKB/TrEMBL;Acc:J3P7]
3	ENSG0000002	0.42	-0.08	0.58	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:J3P7]
4	ENSG0000001	0.38	-0.29	0.55	ATP5B ATP synthase, H+ transporting, mitochondrial F1 complex, beta subunit
5	ENSG0000001	0.38	-0.09	0.36	FAM118Afamily with sequence similarity 118, member A [Source:HGNC Symbol;Acc:HGNC:11763]
6	ENSG0000001	0.36	-0.03	0.32	EDAR ectodysplasin A receptor [Source:HGNC Symbol;Acc:HGNC:11763]
7	ENSG0000001	0.36	-0.16	0.72	GOLIM4 golgi integral membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:11763]
8	ENSG0000001	0.32	-0.14	0.55	KIAA0228KIAA0226-like [Source:HGNC Symbol;Acc:HGNC:20420]
9	ENSG0000000	0.32	-0.17	0.55	FAT1 FAT atypical cadherin 1 [Source:HGNC Symbol;Acc:HGNC:31223]
10	ENSG0000000	0.3	-0.17	0.69	TFRC transferrin receptor [Source:HGNC Symbol;Acc:HGNC:11763]
11	ENSG0000002	0.28	-0.13	0.59	SRXN1 sulfiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:16132]
12	ENSG0000001	0.28	-0.08	0.56	PRKRIR protein-kinase, interferon-inducible double stranded RNA dependent
13	ENSG0000002	0.28	-0.13	0.59	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:S4I1]
14	ENSG0000001	0.27	-0.15	0.47	INSIG1 insulin induced gene 1 [Source:HGNC Symbol;Acc:HGNC:6042]
15	ENSG0000001	0.26	-0.07	0.78	SLC18A2solute carrier family 18 (vesicular monoamine transporter), member 2
16	ENSG0000001	0.25	-0.31	0.55	ARF4 ADP-ribosylation factor 4 [Source:HGNC Symbol;Acc:HGNC:11763]
17	ENSG0000001	0.24	-0.15	0.43	GAS6 growth arrest-specific 6 [Source:HGNC Symbol;Acc:HGNC:4742]
18	ENSG0000001	0.23	-0.08	0.52	CCDC14coiled-coil domain containing 14 [Source:HGNC Symbol;Acc:HGNC:11763]
19	ENSG0000001	0.23	-0.06	0.64	SYBU syntabulin (syntaxin-interacting) [Source:HGNC Symbol;Acc:HGNC:11763]
20	ENSG0000002	0.23	-0.21	0.74	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H071]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-24	83 / 1228	GSE/ KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_UP
2	4e-20	230 / 7491	LympI HOPP_Txn_elongation
3	1e-17	57 / 807	LympI Hopp_June14_MMLL937_tumors+controls_group.overexpression_D_cell_line
4	6e-17	62 / 975	GSE/ NUYTTEEN_EZH2_TARGETS_DN
5	6e-17	56 / 811	LympI WIRTH_lymphoma937_spot D
6	2e-15	70 / 1298	GSE/ DODD_NASOPHARYNGEAL_CARCINOMA_DN
7	4e-14	53 / 852	GSE/ GEORGES_TARGETS_OF_MIR192_AND_MIR215
8	5e-13	173 / 5643	LympI HOPP_Txn_transition
9	6e-13	228 / 8358	LympI HOPP_Active_promoter
10	3e-12	265 / 10475	Color TssA_Colon
11	3e-11	182 / 6320	Brain Overlap_fetal_midbrain_HetRpts
12	1e-10	47 / 862	GSE/ JOHNSTONE_PARVB_TARGETS_3_DN
13	1e-10	36 / 546	GSE/ GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP
14	4e-10	18 / 145	Glio WILLSCHER_GBM_Verhaak-CL_up ( C )
15	5e-10	26 / 316	GSE/ DUTERTRE ESTRADIOL_RESPONSE_24HR_UP
16	6e-10	35 / 550	Canci Lembecke_Normal vs Adenoma
17	9e-10	239 / 9470	Color Quies3_Colon
18	1e-09	253 / 10239	Brain Overlap_fetal_midbrain_ReprPC
19	1e-09	237 / 9390	Color TxWk_Colon
20	1e-09	283 / 11968	Color TssWk_Colon
21	2e-09	41 / 747	GSE/ PUJANA_CHEK2_PCC_NETWORK
22	5e-09	211 / 8147	Lymp HOPP_Weak_promoter
23	8e-09	37 / 668	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
24	3e-08	22 / 284	GSE/ SENGUPTA_NASOPHARYNGEAL_CARCINOMA_UP
25	5e-08	241 / 9923	Brain Overlap_fetal_midbrain_K9K27me3
26	9e-08	25 / 377	miRN hsa-let-7d
27	1e-07	240 / 9930	Color Tx_Colon
28	2e-07	27 / 446	GSE/ SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6
29	2e-07	17 / 192	GSE/ FUJII_YBX1_TARGETS_DN
30	2e-07	245 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
31	5e-07	53 / 1352	GSE/ DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_UP
32	6e-07	39 / 859	GSE/ LEE_BMP2_TARGETS_DN
33	8e-07	13 / 124	GSE/ ODONNELL_TFRC_TARGETS_DN
34	9e-07	15 / 168	GSE/ CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP
35	9e-07	31 / 610	GSE/ RODRIGUES_THYROID_CARCINOMA_POORLY_DIFFERENTIATED_UP
36	1e-06	24 / 400	GSE/ VECCHI_GASTRIC_CANCER_EARLY_UP
37	1e-06	33 / 683	GSE/ RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_UP
38	1e-06	56 / 1503	TF ICGC_Six5_targets
39	1e-06	14 / 152	GSE/ WHITFIELD_CELL_CYCLE_S
40	2e-06	15 / 175	GSE/ PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP





# Correlation Clusters

## Spot Summary: Y

# metagenes = 21  
# genes = 204

<r> metagenes = 0.94  
<r> genes = 0.41  
beta: r2= 0 / log p= -0.06

# samples with spot = 0 ( 0 %)

## Spot Genelist

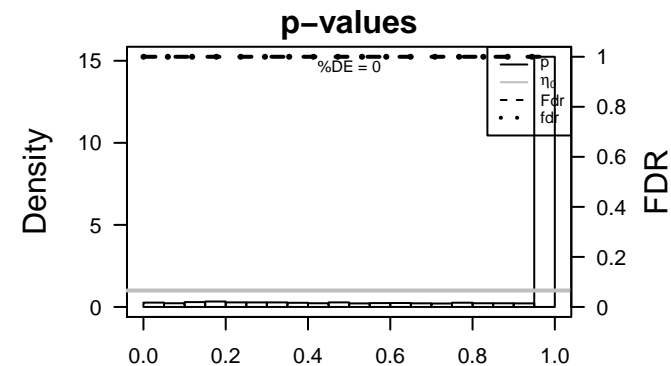
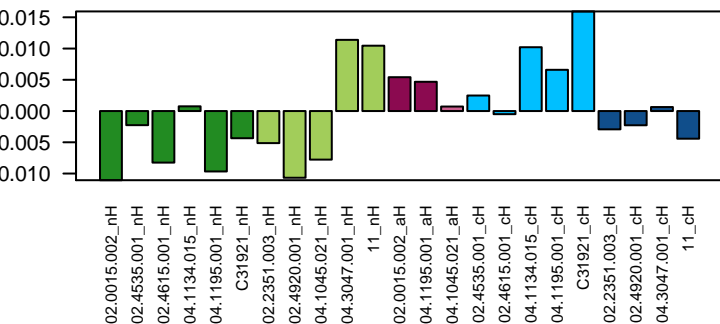
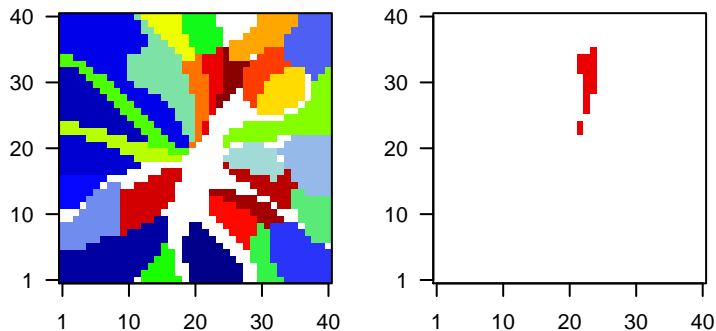
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG000000	0.19	-0.02	0.34	CHGB chromogranin B [Source:HGNC Symbol;Acc:HGNC:1930]
2	ENSG0000001	0.1	-0.04	0.5	TRMT12 tRNA methyltransferase 12 homolog (S. cerevisiae) [Source:H
3	ENSG0000001	0.09	-0.02	0.75	PGAP1 post-GPI attachment to proteins 1 [Source:HGNC Symbol;Ac
4	ENSG0000002	0.08	-0.02	0.47	Coiled-coil domain-containing protein 144A; Uncharacterize
5	ENSG0000001	0.08	-0.03	0.63	STK36 serine/threonine kinase 36 [Source:HGNC Symbol;Acc:HGNC
6	ENSG0000001	0.08	-0.04	0.55	DCUN1D/DCN1, defective in cullin neddylation 1, domain containing 2 [
7	ENSG0000001	0.07	-0.03	0.48	SEMA4F sema domain, immunoglobulin domain (Ig), transmembrane c
8	ENSG0000001	0.06	-0.01	0.52	ITGB8 integrin, beta 8 [Source:HGNC Symbol;Acc:HGNC:6163]
9	ENSG0000002	0.06	-0.01	0.7	
10	ENSG0000001	0.06	-0.04	0.72	TBC1D16/BC1 domain family, member 16 [Source:HGNC Symbol;Acc
11	ENSG0000001	0.06	-0.03	0.58	ZNF300 zinc finger protein 300 [Source:HGNC Symbol;Acc:HGNC:13
12	ENSG0000001	0.06	-0.01	0.44	UBQLNL ubiquitin-like [Source:HGNC Symbol;Acc:HGNC:28294]
13	ENSG0000001	0.05	-0.03	0.51	PGM2L1 phosphoglucomutase 2-like 1 [Source:HGNC Symbol;Acc:HK
14	ENSG0000001	0.05	-0.02	0.46	KBTBD1/klf repeat and BTB (POZ) domain containing 12 [Source:H
15	ENSG0000001	0.05	0	0.54	GALNT1 polypeptide N-acetylgalactosaminyltransferase 13 [Source:H
16	ENSG0000002	0.05	-0.02	0.67	DFNB59 deafness, autosomal recessive 59 [Source:HGNC Symbol;Ac
17	ENSG0000001	0.05	-0.03	0.64	TCAIM T cell activation inhibitor, mitochondrial [Source:HGNC Symb
18	ENSG0000001	0.05	-0.02	0.51	CYP39A cytochrome P450, family 39, subfamily A, polypeptide 1 [Sou
19	ENSG0000002	0.05	-0.01	0.66	C4orf47 chromosome 4 open reading frame 47 [Source:HGNC Symb
20	ENSG0000001	0.05	-0.03	0.67	NMNAT3 nicotinamide nucleotide adenylyltransferase 3 [Source:HGNC

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	5e-08	142 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
2	2e-07	140 / 10239	Brain Overlap_fetal_midbrain_ReprPC
3	3e-06	101 / 6784	Lymph HOPE_Weak_enhancer
4	1e-05	28 / 1134	MF nucleic acid binding
5	2e-05	24 / 910	Brain Fetal_EnhG
6	3e-05	6 / 60	Colon Pentrack_CRC_TCGA_corr_H_mss_UP_msi-h_DN
7	6e-05	75 / 4879	Colon Quies1_Colon
8	7e-05	4 / 22	BP cilium movement
9	2e-04	111 / 8358	Lymph HOPE_Active_promoter
10	2e-04	10 / 240	Lymph WIRTH_lymphoma937_spot B
11	3e-04	3 / 13	BP head development
12	3e-04	108 / 8147	Lymph HOPE_Weak_promoter
13	4e-04	88 / 6320	Brain Overlap_fetal_midbrain_HetRpts
14	5e-04	33 / 1753	Color Het_Colon
15	5e-04	3 / 16	BP axoneme assembly
16	7e-04	3 / 17	BP retinal ganglion cell axon guidance
17	7e-04	65 / 4379	Color TssD1_Colon
18	7e-04	26 / 1281	Color HetRpts_Colon
19	7e-04	9 / 233	Lymph Hopp_June14_MMML937_tumors+controls_group.overexpression_B_cell li
20	1e-03	53 / 3457	Lymph HOPE_Heterochrom
21	1e-03	6 / 118	BP cilium assembly
22	2e-03	12 / 431	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_2
23	2e-03	3 / 25	CC ciliary base
24	2e-03	4 / 53	GSE/ OUILLETTE_CLL_13Q14_DELETION_DN
25	2e-03	85 / 6389	Lymph HOPE_Weak_txn
26	2e-03	3 / 26	miRN hsa-miR-943
27	2e-03	5 / 90	CC ciliary basal body
28	2e-03	23 / 1182	Brain Fetal_EnhP
29	3e-03	37 / 2253	Glio Hopp_Sturm_GBM_Epi3_E1_fetus_UP_fetus_DN
30	3e-03	16 / 712	Brain Overlap_fetal_midbrain_EnhP
31	3e-03	4 / 58	BP determination of left/right symmetry
32	3e-03	38 / 2354	TF ICGC_SrfV0416101_targets
33	3e-03	22 / 1137	Brain Fetal_Enh
34	3e-03	18 / 859	Chr Chr 7
35	4e-03	11 / 411	CC centrosome
36	4e-03	83 / 6324	TF ICGC_Yy1_targets
37	4e-03	2 / 10	BP regulation of cilium assembly
38	5e-03	4 / 66	BP cilium morphogenesis
39	5e-03	4 / 68	BP protein localization
40	5e-03	5 / 109	BP neuron migration

### Overview Map

### Spot



Rank	p-value	#in/all	Geneset
1	0.0000	124	aging aging genes meth UP
2	0.0000	124	HORVALL_aging_genes_meth_UP
3	0.0000	124	TESCHENDORFF_age_hypermethylated
4	0.0000	124	
5	0.0000	124	
6	0.0000	124	
7	0.0000	124	
8	0.0000	124	
9	0.0000	124	
10	0.0000	124	
11	0.0000	124	
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14	0.0000	124	
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41	0.0000	124	
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43	0.0000	124	
44	0.0000	124	
45	0.0000	124	
46	0.0000	124	
47	0.0000	124	
48	0.0000	124	
49	0.0000	124	
50	0.0000	124	

Rank	p-value	#in/all	Geneset
1	0.0000	98	panCan_P13K_geneset_nanostring
2	0.0000	98	panCan_WT_geneset_nanostring
3	0.0000	98	panCan_Driver_Geneset_nanostring
4	0.0000	98	panCan_P13K_geneset_nanostring
5	0.0000	98	SPANG_LBS_index
6	0.0000	98	SPANG_BCI4_index
7	0.0000	98	LUNG_CANCER_DN
8	0.0000	98	Lemcke_ColonC_inflammation
9	0.0000	98	MODEX_UNDIFFERENTIATED_CANCER
10	0.0000	98	SOTIUCH_BREAKFAST_CANCER_GRADE_1_VS_3_DN
11	0.0000	98	LIU_BREAST_CANCER
12	0.0000	98	LIU_COMMON_CANCER_GENES
13	0.0000	98	LIU_PROSTATE_CANCER_UP
14	0.0000	98	WANG_ER_DN
15	0.0000	98	
16	0.0000	98	
17	0.0000	98	
18	0.0000	98	
19	0.0000	98	
20	0.0000	98	
21	0.0000	98	
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41	0.0000	98	
42	0.0000	98	
43	0.0000	98	
44	0.0000	98	
45	0.0000	98	
46	0.0000	98	
47	0.0000	98	
48	0.0000	98	
49	0.0000	98	
50	0.0000	98	

Rank	p-value	#in/all	Geneset
1	0.0000	180	Quies2_Coln_CTCGA_corr_H_mss_UP_msi-h_DN
2	0.0000	180	Quies2_Coln
3	0.0000	180	Quies2_Coln
4	0.0000	180	HEPs2_Coln
5	0.0000	180	ZNF_Coln
6	0.0000	180	Juening_INPCC-mutated-in-4
7	0.0000	180	Quies3_Coln
8	0.0000	180	Quies3_Coln_MMR-system
9	0.0000	180	Quies2_Coln
10	0.0000	180	TCGA_Mutated-in-CRC_hypermethylated
11	0.0000	180	Lemcke_meth_kmeans_E_CIMP_H_UP
12	0.0000	180	Vilar_hypermethylated-in-CRC
13	0.0000	180	Juening_msi-enriched-in-6
14	0.0000	180	Lemcke_TCGA_meth_kmeans_B_Cluster4_DN
15	0.0000	180	TesVik_Coln
16	0.0000	180	Quies3_Coln_CTCGA_corr_S_normal_DN
17	0.0000	180	Quies2_Coln
18	0.0000	180	Penrack_CRC_TCGA_corr_R_normal_DN
19	0.0000	180	
20	0.0000	180	
21	0.0000	180	
22	0.0000	180	
23	0.0000	180	
24	0.0000	180	
25	0.0000	180	
26	0.0000	180	
27	0.0000	180	
28	0.0000	180	
29	0.0000	180	
30	0.0000	180	
31	0.0000	180	
32	0.0000	180	
33	0.0000	180	
34	0.0000	180	
35	0.0000	180	
36	0.0000	180	
37	0.0000	180	
38	0.0000	180	
39	0.0000	180	
40	0.0000	180	
41	0.0000	180	
42	0.0000	180	
43	0.0000	180	
44	0.0000	180	
45	0.0000	180	
46	0.0000	180	
47	0.0000	180	
48	0.0000	180	
49	0.0000	180	
50	0.0000	180	

Rank	p-value	#in/all	Geneset
1	0.0000	24	ENDOCRINE_THERAPY_RESISTANCE_2
2	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
3	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
4	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
5	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
6	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
7	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
8	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
9	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
10	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
11	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
12	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
13	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
14	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
15	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
16	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
17	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
18	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
19	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
20	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
21	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
22	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
23	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
24	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
25	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
26	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
27	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
28	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
29	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
30	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
31	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
32	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
33	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
34	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
35	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
36	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
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39	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
40	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
41	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
42	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
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44	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
45	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
46	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
47	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
48	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
49	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN
50	0.0000	24	CONTAINING_PATLARA_4_DELETION_DN

Rank	p-value	#in/all	Geneset
1	0.0000	147	enhancer
2	0.0000	147	HOP_Active_promoter
3	0.0000	147	HOP_Active_promoter
4	0.0000	147	HOP_Active_promoter
5	0.0000	147	HOP_Active_promoter
6	0.0000	147	HOP_Active_promoter
7	0.0000	147	HOP_Active_promoter
8	0.0000	147	HOP_Active_promoter
9	0.0000	147	HOP_Active_promoter
10	0.0000	147	HOP_Active_promoter
11	0.0000	147	HOP_Active_promoter
12	0.0000	147	HOP_Active_promoter
13	0.0000	147	HOP_Active_promoter
14	0.0000	147	HOP_Active_promoter
15	0.0000	147	HOP_Active_promoter
16	0.0000	147	HOP_Active_promoter
17	0.0000	147	HOP_Active_promoter
18	0.0000	147	HOP_Active_promoter
19	0.0000	147	HOP_Active_promoter
20	0.0000	147	HOP_Active_promoter
21	0.0000	147	HOP_Active_promoter
22	0.0000	147	HOP_Active_promoter
23	0.0000	147	HOP_Active_promoter
24	0.0000	147	HOP_Active_promoter
25	0.0000	147	HOP_Active_promoter
26	0.0000	147	HOP_Active_promoter
27	0.0000	147	HOP_Active_promoter
28	0.0000	147	HOP_Active_promoter
29	0.0000	147	HOP_Active_promoter
30	0.0000	147	HOP_Active_promoter
31	0.0000	147	HOP_Active_promoter
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35	0.0000	147	HOP_Active_promoter
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37	0.0000	147	HOP_Active_promoter
38	0.0000	147	HOP_Active_promoter
39	0.0000	147	HOP_Active_promoter
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41	0.0000	147	HOP_Active_promoter
42	0.0000	147	HOP_Active_promoter
43	0.0000	147	HOP_Active_promoter
44	0.0000	147	HOP_Active_promoter
45	0.0000	147	HOP_Active_promoter
46	0.0000	147	HOP_Active_promoter
47	0.0000	147	HOP_Active_promoter
48	0.0000	147	HOP_Active_promoter
49	0.0000	147	HOP_Active_promoter
50	0.0000	147	HOP_Active_promoter

Rank	p-value	#in/all	Geneset
1	0.0000	10	panCan_P13K_UP
2	0.0000	10	panCan_P13K_DN
3	0.0000	10	panCan_P13K_UP
4	0.0000	10	panCan_P13K_DN
5	0.0000	10	panCan_P13K_UP
6	0.0000	10	panCan_P13K_DN
7	0.0000	10	panCan_P13K_UP
8	0.0000	10	panCan_P13K_DN
9	0.0000	10	panCan_P13K_UP
10	0.0000	10	panCan_P13K_DN
11	0.0000	10	panCan_P13K_UP
12	0.0000	10	panCan_P13K_DN
13	0.0000	10	panCan_P13K_UP
14	0.0000	10	panCan_P13K_DN
15	0.0000	10	panCan_P13K_UP
16	0.0000	10	panCan_P13K_DN
17	0.0000	10	panCan_P13K_UP
18	0.0000	10	panCan_P13K_DN
19	0.0000	10	panCan_P13K_UP
20	0.0000	10	panCan_P13K_DN
21	0.0000	10	panCan_P13K_UP
22	0.0000	10	panCan_P13K_DN
23	0.0000	10	panCan_P13K_UP
24	0.0000	10	panCan_P13K_DN
25	0.0000	10	panCan_P13K_UP
26	0.0000	10	panCan_P13K_DN
27	0.0000	10	panCan_P13K_UP
28	0.0000	10	panCan_P13K_DN
29	0.0000	10	panCan_P13K_UP
30	0.0000	10	panCan_P13K_DN
31	0.0000	10	panCan_P13K_UP
32	0.0000	10	panCan_P13K_DN
33	0.0000	10	panCan_P13K_UP
34	0.0000	10	panCan_P13K_DN
35	0.0000	10	panCan_P13K_UP
36	0.0000	10	panCan_P13K_DN
37	0.0000	10	panCan_P13K_UP
38	0.0000	10	panCan_P13K_DN
39	0.0000	10	panCan_P13K_UP
40	0.0000	10	panCan_P13K_DN
41	0.0000	10	panCan_P13K_UP
42	0.0000	10	panCan_P13K_DN
43	0.0000	10	panCan_P13K_UP
44	0.0000	10	

# Correlation Clusters

## Spot Summary: Z

# metagenes = 20  
# genes = 176

<r> metagenes = 0.94  
<r> genes = 0.42  
beta: r2= 0 / log p= -0.09

# samples with spot = 0 ( 0 %)

## Spot Genelist

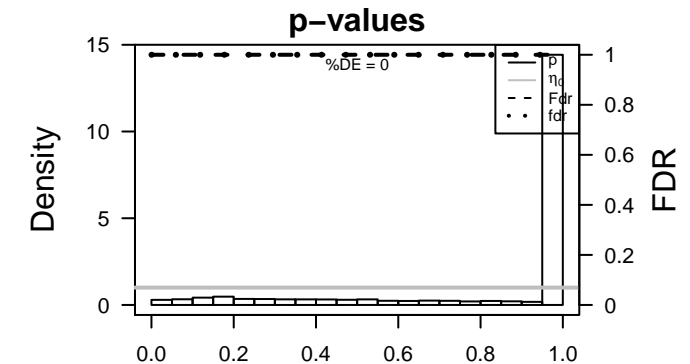
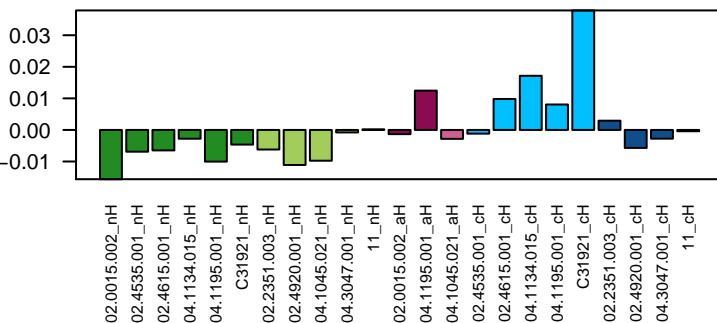
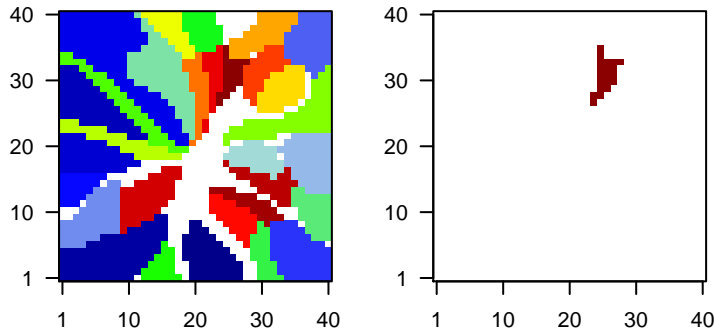
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	0.2	-0.02	0.73	SLITRK6SLIT and NTRK-like family, member 6 [Source:HGNC Symbc
2	ENSG0000001	0.19	-0.04	0.73	ODF2L outer dense fiber of sperm tails 2-like [Source:HGNC Symbc
3	ENSG0000001	0.17	-0.03	0.73	LRP5L low density lipoprotein receptor-related protein 5-like [Source
4	ENSG0000001	0.17	-0.01	0.44	GIF gastric intrinsic factor (vitamin B synthesis) [Source:HGNC S
5	ENSG0000001	0.16	-0.04	0.73	SLC2A10solute carrier family 2 (facilitated glucose transporter), membr
6	ENSG0000001	0.15	-0.02	0.68	ALDH1A2aldehyde dehydrogenase 1 family, member A2 [Source:HGNC
7	ENSG0000001	0.15	-0.05	0.63	SHF Src homology 2 domain containing F [Source:HGNC Symbol;Acc:HGNC:7
8	ENSG0000001	0.14	-0.01	0.5	EIF1AY eukaryotic translation initiation factor 1A, Y-linked [Source:HG
9	ENSG0000001	0.12	-0.06	0.67	MTA1 metastasis associated 1 [Source:HGNC Symbol;Acc:HGNC:7
10	ENSG0000001	0.12	-0.03	0.71	ANKRD30ankyrin repeat domain 36 [Source:HGNC Symbol;Acc:HGNC
11	ENSG0000000	0.11	-0.02	0.6	MT3 metallothionein 3 [Source:HGNC Symbol;Acc:HGNC:7408]
12	ENSG0000001	0.1	-0.01	0.67	WT1 Wilms tumor 1 [Source:HGNC Symbol;Acc:HGNC:12796]
13	ENSG0000001	0.1	-0.01	0.77	HAPLN1 hyaluronan and proteoglycan link protein 1 [Source:HGNC Sy
14	ENSG0000001	0.09	-0.06	0.52	FANCF Fanconi anemia, complementation group F [Source:HGNC S
15	ENSG0000001	0.09	-0.02	0.68	CYP4X1 cytochrome P450, family 4, subfamily X, polypeptide 1 [Sourc
16	ENSG0000001	0.09	-0.01	0.75	NBPF4 neuroblastoma breakpoint family, member 4 [Source:HGNC S
17	ENSG0000001	0.09	-0.01	0.65	SLCO1B3solute carrier organic anion transporter family, member 1B3 [
18	ENSG0000000	0.09	-0.01	0.8	SLC11A1solute carrier family 11 (proton-coupled divalent metal ion tra
19	ENSG0000001	0.09	-0.07	0.42	MCEE methylmalonyl CoA epimerase [Source:HGNC Symbol;Acc:H
20	ENSG0000001	0.08	0	0.33	TTC29 tetratricopeptide repeat domain 29 [Source:HGNC Symbol;Ac

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-05	18 / 688	Colon Lembcke_TCGA-expr_kmeans_L_CIMP.H_UP_Cluster4_DN
2	4e-04	22 / 1084	Brain Overlap_fetal_midbrain_EnhG
3	4e-04	16 / 668	GSE/ MARSON_BOUND_BY_E2F4_UNSTIMULATED
4	6e-04	14 / 550	Canci Lembcke_Normal vs Adenoma
5	9e-04	18 / 859	GSE/ LEE_BMP2_TARGETS_DN
6	1e-03	11 / 396	GSE/ REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_MOLECUL
7	1e-03	7 / 175	GSE/ PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP
8	1e-03	6 / 128	GSE/ SABATES_COLORECTAL_ADENOMA_UP
9	1e-03	2 / 6	GSE/ PALOMERO_GSL_SENSITIVITY_UP
10	2e-03	16 / 753	BP transmembrane transport
11	3e-03	28 / 1753	Color Het_Colon
12	3e-03	3 / 31	MF antiporter activity
13	3e-03	4 / 65	BP camera-type eye development
14	3e-03	22 / 1279	Brain Overlap_fetal_midbrain_Enh
15	3e-03	127 / 11968	Color TssWk_Colon
16	4e-03	3 / 34	BP embryonic forelimb morphogenesis
17	4e-03	1 / 16	Canci LIU_COMMON_CANCER_GENES
18	4e-03	5 / 113	MF methyltransferase activity
19	4e-03	3 / 35	GSE/ SHIPP_DLBCL_CURED_VS_FATAL_UP
20	4e-03	16 / 830	Color Pentrack_CRC_TCGA_corr_R_normal_DN
21	4e-03	2 / 11	GSE/ MATHEW_FANCONI_ANEMIA_GENES
22	4e-03	6 / 167	Lymp Hopp_June14_MMML937_tumors+controls_group.overexpression_C_cell li
23	5e-03	6 / 171	Lymp WIRTH_lymphoma937_spot C
24	5e-03	2 / 12	MF fucosyltransferase activity
25	6e-03	7 / 231	GSE/ REACTOME_SLC_MEDIATED_TRANSMEMBRANE_TRANSPORT
26	6e-03	11 / 491	BP transport
27	6e-03	17 / 944	GSE/ KRIGE_RESPONSE_TO_TOSEDOSTAT_24HR_DN
28	6e-03	2 / 13	CC Fanconi anaemia nuclear complex
29	6e-03	2 / 13	BP fucosylation
30	7e-03	4 / 81	CC ubiquitin ligase complex
31	7e-03	5 / 129	BP sensory perception of sound
32	7e-03	12 / 578	GSE/ NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CENTRAL_DN
33	8e-03	4 / 85	BP chloride transmembrane transport
34	8e-03	21 / 1298	GSE/ DODD_NASOPHARYNGEAL_CARCIOMA_DN
35	8e-03	3 / 45	BP anion transmembrane transport
36	8e-03	3 / 45	GSE/ PID_FANCONI_PATHWAY
37	8e-03	2 / 15	MF cation transmembrane transporter activity
38	9e-03	2 / 16	BP nucleotide biosynthetic process
39	1e-02	3 / 50	MF chloride channel activity
40	1e-02	2 / 18	CC DNA-directed RNA polymerase III complex

## Overview Map

## Spot





Rank	p-value	#in/all
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Rank	p-value	#in/all
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27		

# Correlation Clusters

## Spot Summary: A1

# metagenes = 30  
# genes = 321

<r> metagenes = 0.96

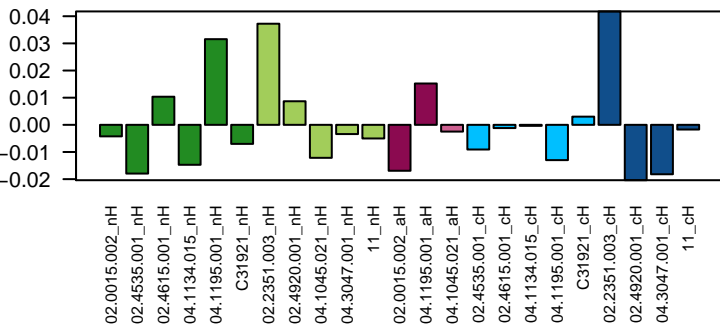
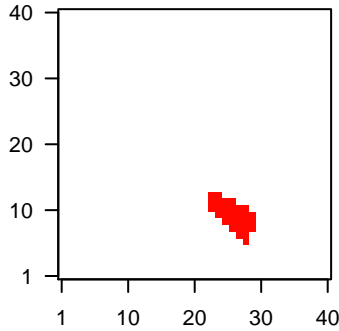
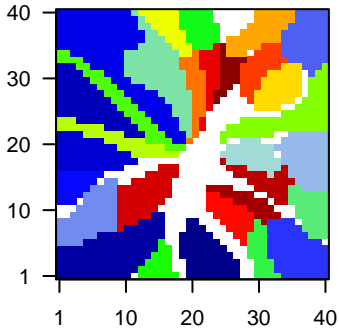
<r> genes = 0.36

beta: r2= 0.01 / log p= -0.13

# samples with spot = 0 ( 0 %)

### Overview Map

### Spot

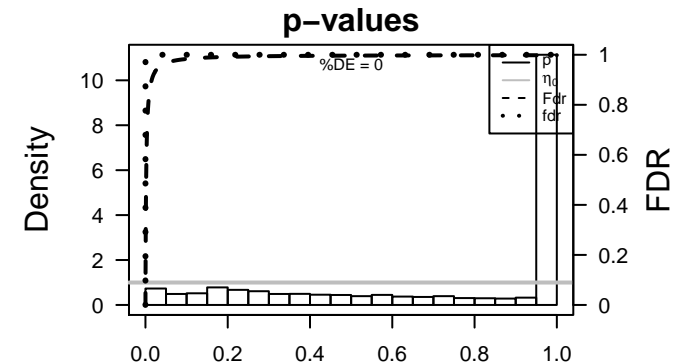


## Spot Genelist

Rank	ID	max e	r	min e	Description
1	ENSG0000001	0.62	-0.05	0.4	CSF3 colony stimulating factor 3 (granulocyte) [Source:HGNC Syml
2	ENSG0000001	0.3	-0.11	0.37	TXNRD1 thioredoxin reductase 1 [Source:HGNC Symbol;Acc:HGNC:1
3	ENSG0000001	0.23	-0.05	0.56	STXBP5 syntaxin binding protein 5 (tomosyn) [Source:HGNC Symbol;
4	ENSG0000000	0.23	-0.06	0.55	RAP1GARAP1 GTPase activating protein [Source:HGNC Symbol;Acc:
5	ENSG0000001	0.23	-0.4	0.36	ALDH2 aldehyde dehydrogenase 2 family (mitochondrial) [Source:HC
6	ENSG0000001	0.23	-0.13	0.75	SNX4 sorting nexin 4 [Source:HGNC Symbol;Acc:HGNC:11175]
7	ENSG0000001	0.22	-0.04	0.67	MB myoglobin [Source:HGNC Symbol;Acc:HGNC:6915]
8	ENSG0000001	0.22	-0.06	0.67	DNAJC12DnaJ (Hsp40) homolog, subfamily C, member 12 [Source:HG
9	ENSG0000000	0.2	-0.13	0.59	NEO1 neogenin 1 [Source:HGNC Symbol;Acc:HGNC:7754]
10	ENSG0000001	0.19	-0.1	0.68	LOC102729553al-dependent decarboxylase domain containing 1 [So
11	ENSG0000002	0.19	-0.02	0.76	FER1L6 fer-1-like family member 6 [Source:HGNC Symbol;Acc:HGNC
12	ENSG0000001	0.17	-0.05	0.66	USP38 ubiquitin specific peptidase 38 [Source:HGNC Symbol;Acc:HG
13	ENSG0000001	0.17	-0.04	0.51	FAM177Bfamily with sequence similarity 177, member B [Source:HGNC
14	ENSG0000001	0.17	-0.02	0.25	GCG glucagon [Source:HGNC Symbol;Acc:HGNC:4191]
15	ENSG0000001	0.17	-0.04	0.62	CLIC6 chloride intracellular channel 6 [Source:HGNC Symbol;Acc:HG
16	ENSG0000001	0.17	-0.06	0.64	XRCC6BXRCC6 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:
17	ENSG0000002	0.17	-0.03	0.25	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H3I
18	ENSG0000001	0.16	-0.04	0.31	PTPRD protein tyrosine phosphatase, receptor type, D [Source:HGNC
19	ENSG0000001	0.16	-0.07	0.63	TOR1B torsin family 1, member B (torsin B) [Source:HGNC Symbol;A
20	ENSG0000000	0.16	-0.07	0.77	BRPF3 bromodomain and PHD finger containing, 3 [Source:HGNC S

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-09	222 / 10278	Brain Overlap_fetal_midbrain_ReprPCWk
2	6e-09	208 / 9470	Colon Quies3_Colon
3	8e-09	23 / 329	BP intracellular protein transport
4	2e-08	245 / 11968	Colon TssWk_Colon
5	5e-08	217 / 10239	Brain Overlap_fetal_midbrain_ReprPC
6	5e-07	31 / 688	Colon Lembcke_TCGA-expr_kmeans_L_CIMP.H_UP_Cluster4_DN
7	1e-06	147 / 6389	Lymp/ HOPP_Weak_txn
8	1e-06	30 / 682	GSE/ CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_3
9	4e-06	10 / 94	HM HALLMARK_PROTEIN_SECRETION
10	4e-06	196 / 9390	Colon TxWk_Colon
11	5e-06	143 / 6320	Brain Overlap_fetal_midbrain_HetRpts
12	7e-06	20 / 383	GSE/ OSMAN_BLADDER_CANCER_UP
13	9e-06	116 / 4879	Colon Quies1_Colon
14	1e-05	211 / 10475	Colon TssA_Colon
15	4e-05	147 / 6784	Lymp HOPP_Weak_enhancer
16	7e-05	199 / 9930	Colon Tx_Colon
17	7e-05	7 / 62	BP ER to Golgi vesicle-mediated transport
18	1e-04	15 / 286	GSE/ GABRIELY_MIR21_TARGETS
19	1e-04	101 / 4327	Colon EnhWk2_Colon
20	1e-04	168 / 8147	Lymp HOPP_Weak_promoter
21	1e-04	5 / 31	GSE/ BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_UP
22	2e-04	29 / 834	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_DN
23	2e-04	11 / 176	GSE/ KEGG_ENDOCYTOSIS
24	2e-04	25 / 685	GSE/ SCHLOSSER_SERUM_RESPONSE_DN
25	2e-04	9 / 124	miRN hsa-miR-579
26	3e-04	5 / 35	GSE/ BIOCARTA_TOLL_PATHWAY
27	3e-04	67 / 2658	Lymp HOPP_Repetitive
28	3e-04	35 / 1137	Brain Fetal_Enh
29	4e-04	4 / 21	miRN hsa-miR-554
30	4e-04	21 / 549	GSE/ MASSARWEH_TAMOXIFEN_RESISTANCE_UP
31	4e-04	20 / 512	BP protein transport
32	6e-04	4 / 24	GSE/ REACTOME_EGFR_DOWNREGULATION
33	6e-04	29 / 910	Brain Fetal_EnhG
34	9e-04	167 / 8358	Lymp HOPP_Active_promoter
35	1e-03	18 / 471	GSE/ DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN
36	1e-03	152 / 7491	Lymp HOPP_Txn_elongation
37	1e-03	5 / 47	CC chloride channel complex
38	1e-03	6 / 71	BP Rob protein signal transduction
39	1e-03	11 / 222	GSE/ COLDREN_GEFITINIB_RESISTANCE_DN
40	1e-03	8 / 127	GSE/ KEGG_TIGHT_JUNCTION



### Agging

Rank	p-value	#in/all	Geneset
1	0.0000	1	ESCHENDORFF_age_hypermethylated
2	0.0000	1	HORVAH_aging_genes_meth UP
3	0.0000	1	
4	0.0000	1	
5	0.0000	1	
6	0.0000	1	
7	0.0000	1	
8	0.0000	1	
9	0.0000	1	
10	0.0000	1	
11	0.0000	1	
12	0.0000	1	
13	0.0000	1	
14	0.0000	1	
15	0.0000	1	
16	0.0000	1	
17	0.0000	1	
18	0.0000	1	
19	0.0000	1	
20	0.0000	1	
21	0.0000	1	
22	0.0000	1	
23	0.0000	1	
24	0.0000	1	
25	0.0000	1	
26	0.0000	1	
27	0.0000	1	
28	0.0000	1	
29	0.0000	1	
30	0.0000	1	
31	0.0000	1	
32	0.0000	1	
33	0.0000	1	
34	0.0000	1	
35	0.0000	1	
36	0.0000	1	
37	0.0000	1	
38	0.0000	1	
39	0.0000	1	
40	0.0000	1	
41	0.0000	1	
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44	0.0000	1	
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52	0.0000	1	
53	0.0000	1	
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55	0.0000	1	
56	0.0000	1	
57	0.0000	1	
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59	0.0000	1	
60	0.0000	1	
61	0.0000	1	
62	0.0000	1	
63	0.0000	1	
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69	0.0000	1	
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71	0.0000	1	
72	0.0000	1	
73	0.0000	1	
74	0.0000	1	
75	0.0000	1	
76	0.0000	1	
77	0.0000	1	
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79	0.0000	1	
80	0.0000	1	
81	0.0000	1	
82	0.0000	1	
83	0.0000	1	
84	0.0000	1	
85	0.0000	1	
86	0.0000	1	
87	0.0000	1	
88	0.0000	1	
89	0.0000	1	
90	0.0000	1	
91	0.0000	1	
92	0.0000	1	
93	0.0000	1	
94	0.0000	1	
95	0.0000	1	
96	0.0000	1	
97	0.0000	1	
98	0.0000	1	
99	0.0000	1	
100	0.0000	1	

### Cancer

Rank	p-value	#in/all	Geneset
1	0.0000	1	pancan_TAPK_geneset_nanostring
2	0.0000	1	pancan_LAK_3_geneset_nanostring
3	0.0000	1	pancan_P13k_geneset_nanostring
4	0.0000	1	PROSTATE_CANCER_DN
5	0.0000	1	GEN_modul16
6	0.0000	1	SHAPESNSV_MV_high_risk
7	0.0000	1	LIU_COMMON_CANCER_geneset_nanostring
8	0.0000	1	LIU_PROSTATE_CANCER_UP
9	0.0000	1	pancan_Driver_Gene_geneset_nanostring
10	0.0000	1	SPANG_BCG_index
11	0.0000	1	pancan_LXmisReg_geneset_nanostring
12	0.0000	1	SPANG_LCC_index2
13	0.0000	1	pancan_LCC_Apop_geneset_nanostring
14	0.0000	1	
15	0.0000	1	
16	0.0000	1	
17	0.0000	1	
18	0.0000	1	
19	0.0000	1	
20	0.0000	1	
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34	0.0000	1	
35	0.0000	1	
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86	0.0000	1	
87	0.0000	1	
88	0.0000	1	
89	0.0000	1	
90	0.0000	1	
91	0.0000	1	
92	0.0000	1	
93	0.0000	1	
94	0.0000	1	
95	0.0000	1	
96	0.0000	1	
97	0.0000	1	
98	0.0000	1	
99	0.0000	1	
100	0.0000	1	

### Colon Cancer

Rank	p-value	#in/all	Geneset
1	0.0000	1	Leimbcke_TCGA-expr_kmeans_L_CIMP_H_UP_Cluster4_DN
2	0.0000	1	Quirk_Colon
3	0.0000	1	Quirk_Colon
4	0.0000	1	Quirk_Colon
5	0.0000	1	Quirk_Colon
6	0.0000	1	Quirk_Colon
7	0.0000	1	Quirk_Colon
8	0.0000	1	Quirk_Colon
9	0.0000	1	Quirk_Colon
10	0.0000	1	Quirk_Colon
11	0.0000	1	Quirk_Colon
12	0.0000	1	Quirk_Colon
13	0.0000	1	Quirk_Colon
14	0.0000	1	Quirk_Colon
15	0.0000	1	Quirk_Colon
16	0.0000	1	Quirk_Colon
17	0.0000	1	Quirk_Colon
18	0.0000	1	Quirk_Colon
19	0.0000	1	Quirk_Colon
20	0.0000	1	Quirk_Colon
21	0.0000	1	Quirk_Colon
22	0.0000	1	Quirk_Colon
23	0.0000	1	Quirk_Colon
24	0.0000	1	Quirk_Colon
25	0.0000	1	Quirk_Colon
26	0.0000	1	Quirk_Colon
27	0.0000	1	Quirk_Colon
28	0.0000	1	Quirk_Colon
29	0.0000	1	Quirk_Colon
30	0.0000	1	Quirk_Colon
31	0.0000	1	Quirk_Colon
32	0.0000	1	Quirk_Colon
33	0.0000	1	Quirk_Colon
34	0.0000	1	Quirk_Colon
35	0.0000	1	Quirk_Colon
36	0.0000	1	Quirk_Colon
37	0.0000	1	Quirk_Colon
38	0.0000	1	Quirk_Colon
39	0.0000	1	Quirk_Colon
40	0.0000	1	Quirk_Colon
41	0.0000	1	Quirk_Colon
42	0.0000	1	Quirk_Colon
43	0.0000	1	Quirk_Colon
44	0.0000	1	Quirk_Colon
45	0.0000	1	Quirk_Colon
46	0.0000	1	Quirk_Colon
47	0.0000	1	Quirk_Colon
48	0.0000	1	Quirk_Colon
49	0.0000	1	Quirk_Colon
50	0.0000	1	Quirk_Colon
51	0.0000	1	Quirk_Colon
52	0.0000	1	Quirk_Colon
53	0.0000	1	Quirk_Colon
54	0.0000	1	Quirk_Colon
55	0.0000	1	Quirk_Colon
56	0.0000	1	Quirk_Colon
57	0.0000	1	Quirk_Colon
58	0.0000	1	Quirk_Colon
59	0.0000	1	Quirk_Colon
60	0.0000	1	Quirk_Colon
61	0.0000	1	Quirk_Colon
62	0.0000	1	Quirk_Colon
63	0.0000	1	Quirk_Colon
64	0.0000	1	Quirk_Colon
65	0.0000	1	Quirk_Colon
66	0.0000	1	Quirk_Colon
67	0.0000	1	Quirk_Colon
68	0.0000	1	Quirk_Colon
69	0.0000	1	Quirk_Colon
70	0.0000	1	Quirk_Colon
71	0.0000	1	Quirk_Colon
72	0.0000	1	Quirk_Colon
73	0.0000	1	Quirk_Colon
74	0.0000	1	Quirk_Colon
75	0.0000	1	Quirk_Colon
76	0.0000	1	Quirk_Colon
77	0.0000	1	Quirk_Colon
78	0.0000	1	Quirk_Colon
79	0.0000	1	Quirk_Colon
80	0.0000	1	Quirk_Colon
81	0.0000	1	Quirk_Colon
82	0.0000	1	Quirk_Colon
83	0.0000	1	Quirk_Colon
84	0.0000	1	Quirk_Colon
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86	0.0000	1	Quirk_Colon
87	0.0000	1	Quirk_Colon
88	0.0000	1	Quirk_Colon
89	0.0000	1	Quirk_Colon
90	0.0000	1	Quirk_Colon
91	0.0000	1	Quirk_Colon
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93	0.0000	1	Quirk_Colon
94	0.0000	1	Quirk_Colon
95	0.0000	1	Quirk_Colon
96	0.0000	1	Quirk_Colon
97	0.0000	1	Quirk_Colon
98	0.0000	1	Quirk_Colon
99	0.0000	1	Quirk_Colon
100	0.0000	1	Quirk_Colon

### Stomach

Rank	p-value	#in/all	Geneset
1	0.0000	1	OSMAN_BIOMDUR_CANCER_UP
2	0.0000	1	BARSLER_CANCER_CELLTYPE_NORMAL_SAMPLE_UP
3	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
4	0.0000	1	KEGOSENDOC_RESPONSE_DN
5	0.0000	1	KEGOSENDOC_RESPONSE_UP
6	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
7	0.0000	1	KEGOSENDOC_RESPONSE_DN
8	0.0000	1	KEGOSENDOC_RESPONSE_UP
9	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
10	0.0000	1	KEGOSENDOC_RESPONSE_DN
11	0.0000	1	KEGOSENDOC_RESPONSE_UP
12	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
13	0.0000	1	KEGOSENDOC_RESPONSE_DN
14	0.0000	1	KEGOSENDOC_RESPONSE_UP
15	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
16	0.0000	1	KEGOSENDOC_RESPONSE_DN
17	0.0000	1	KEGOSENDOC_RESPONSE_UP
18	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
19	0.0000	1	KEGOSENDOC_RESPONSE_DN
20	0.0000	1	KEGOSENDOC_RESPONSE_UP
21	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
22	0.0000	1	KEGOSENDOC_RESPONSE_DN
23	0.0000	1	KEGOSENDOC_RESPONSE_UP
24	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
25	0.0000	1	KEGOSENDOC_RESPONSE_DN
26	0.0000	1	KEGOSENDOC_RESPONSE_UP
27	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
28	0.0000	1	KEGOSENDOC_RESPONSE_DN
29	0.0000	1	KEGOSENDOC_RESPONSE_UP
30	0.0000	1	KEGOSENDOC_RESPONSE_VIA_ERCC3_DN
31	0.0000	1	KEG

# Correlation Clusters

## Spot Summary: B1

# metagenes = 68  
# genes = 751

<r> metagenes = 0.96

<r> genes = 0.61

beta: r2= 0.05 / log p= -0.51

# samples with spot = 1 ( 4.3 %)

other\_cancerHNPCC : 1 ( 25 %)

## Spot Genelist

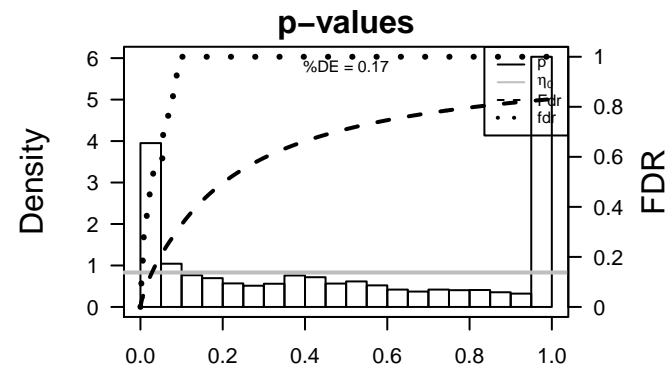
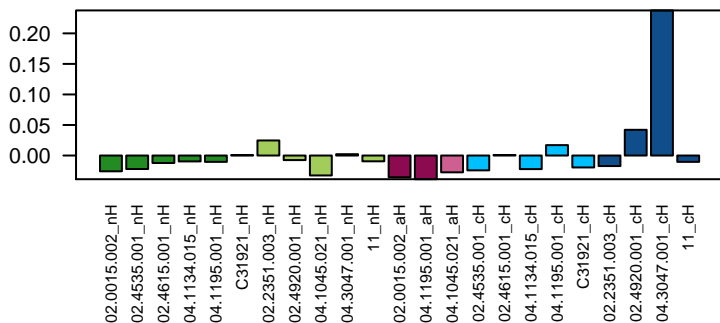
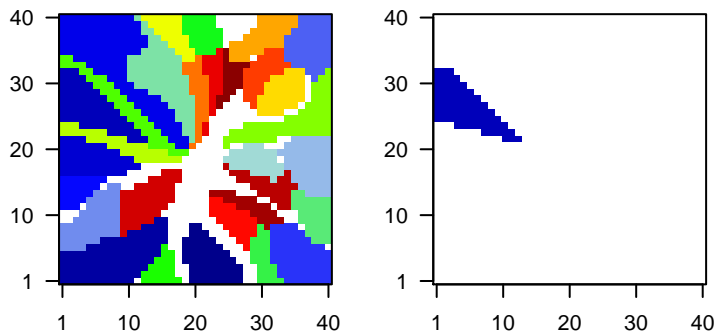
Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	1.82	-0.23	0.89	FABP4 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol]
2	ENSG0000002	1.31	-0.26	0.91	GPX3 glutathione peroxidase 3 [Source:HGNC Symbol;Acc:HGNC:1044]
3	ENSG0000002	1.17	-0.14	0.27	HBB hemoglobin, beta [Source:HGNC Symbol;Acc:HGNC:4827]
4	ENSG0000001	1.11	-0.22	0.91	SFRP2 secreted frizzled-related protein 2 [Source:HGNC Symbol;Acc:HGNC:1044]
5	ENSG0000001	1.02	-0.41	0.84	CTGF connective tissue growth factor [Source:HGNC Symbol;Acc:HGNC:1044]
6	ENSG0000001	1.01	-0.27	0.77	BGN biglycan [Source:HGNC Symbol;Acc:HGNC:1044]
7	ENSG0000001	1	-0.16	0.92	ADAMTS1 ADAM metalloproteinase with thrombospondin type 1 motif, 1 [Source:HGNC Symbol;Acc:HGNC:1044]
8	ENSG0000001	0.98	-0.25	0.64	SAA1 serum amyloid A1 [Source:HGNC Symbol;Acc:HGNC:10513]
9	ENSG0000001	0.95	-0.62	0.71	DUSP1 dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:1044]
10	ENSG0000001	0.9	-0.24	0.81	FOSB FBJ murine osteosarcoma viral oncogene homolog B [Source:HGNC Symbol;Acc:HGNC:1044]
11	ENSG0000001	0.89	-0.09	0.86	ADIPOQ adiponectin, C1Q and collagen domain containing [Source:HGNC Symbol;Acc:HGNC:1044]
12	ENSG0000001	0.87	-0.18	0.94	C11orf96 chromosome 11 open reading frame 96 [Source:HGNC Symt]
13	ENSG0000001	0.86	-0.22	0.8	C10orf10 chromosome 10 open reading frame 10 [Source:HGNC Symt]
14	ENSG0000001	0.86	-0.19	0.83	G0S2 G0/G1 switch 2 [Source:HGNC Symbol;Acc:HGNC:30229]
15	ENSG0000001	0.84	-0.09	0.96	RBP7 retinol binding protein 7, cellular [Source:HGNC Symbol;Acc:HGNC:1044]
16	ENSG0000001	0.83	-0.15	0.89	SERPINC1 serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1) [Source:HGNC Symbol;Acc:HGNC:1044]
17	ENSG0000002	0.82	-0.11	0.94	MUSTN1 musculoskeletal, embryonic nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:1044]
18	ENSG0000002	0.81	-0.2	0.83	ACKR1 atypical chemokine receptor 1 (Duffy blood group) [Source:HGNC Symbol;Acc:HGNC:1044]
19	ENSG0000001	0.81	-0.07	0.92	PLIN1 perilipin 1 [Source:HGNC Symbol;Acc:HGNC:9076]
20	ENSG0000001	0.78	-0.09	0.95	ID4 inhibitor of DNA binding 4, dominant negative helix-loop-helix [Source:HGNC Symbol;Acc:HGNC:1044]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	3e-47	70 / 204	GSE/ BOQUEST_STEM_CELL_DN
2	1e-44	275 / 3109	Colon TssP_Colon
3	1e-36	353 / 5039	Lymph HOPP_Repressed
4	4e-35	73 / 326	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
5	1e-34	125 / 945	GSE/ NABA_MATRISOME
6	4e-31	91 / 574	Cancer Lembecke_Colonic Inflammation
7	1e-29	75 / 413	GSE/ BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP
8	1e-29	235 / 2956	Brain Fetal_TssA
9	3e-29	228 / 2838	Lymph HOPP_Poised_promoter
10	5e-28	254 / 3406	Colon ReprPC_Colon
11	3e-27	56 / 249	GSE/ BOQUEST_STEM_CELL_UP
12	5e-27	72 / 418	GSE/ SWEET_LUNG_CANCER_KRAS_DN
13	6e-27	53 / 224	BP angiogenesis
14	2e-26	50 / 202	CC extracellular matrix
15	3e-25	137 / 1374	CC extracellular matrix
16	5e-25	48 / 198	HM HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION
17	5e-25	124 / 1176	CC extracellular space
18	1e-23	31 / 78	GSE/ NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_DN
19	1e-23	42 / 158	GSE/ VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_UP
20	3e-23	219 / 2947	Colon ReprPCWk_Colon
21	1e-22	52 / 261	Lymph LENZ_Stromal signature 1
22	1e-22	71 / 478	GSE/ LIM_MAMMARY_STEM_CELL_UP
23	2e-22	74 / 522	GSE/ SMID_BREAST_CANCER_LUMINAL_B_DN
24	4e-22	50 / 248	GSE/ ONDER_CDH1_TARGETS_2_UP
25	4e-22	61 / 368	GSE/ LINDGREN_BLADDER_CANCER_CLUSTER_2B
26	5e-22	94 / 804	GSE/ CUI_TCF21_TARGETS_2_DN
27	6e-22	56 / 314	Lymph Hopp_June14_MMML37_tumors+controls_group.overexpression_E_GC-L
28	7e-22	56 / 315	Lymph WIRTH_lymphoma937_spot E
29	9e-22	41 / 167	GSE/ VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP
30	2e-21	26 / 59	Lymph LENZ_Stromal signature 2
31	8e-21	26 / 62	GSE/ ANASTASSIOU_CANCER_MESENCHYMAL_TRANSITION_SIGNATURE
32	3e-20	71 / 525	GSE/ WEST_ADRENOCORTICAL_TUMOR_DN
33	3e-20	42 / 192	HM HALLMARK_TNFA_SIGNALING_VIA_NFKB
34	5e-20	55 / 332	Color Pentrack_CRC_TCGA_corr_J_msi-h_UP_mss_DN
35	8e-20	42 / 196	GSE/ PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP
36	8e-20	42 / 196	GSE/ MANALO_HYPOXIA_UP
37	2e-19	81 / 684	GSE/ NABA_MATRISOME_ASSOCIATED
38	5e-19	49 / 279	Glio WILLSCHER_GBM_Verhaak-CL & MES_up
39	1e-18	25 / 67	GSE/ TURASHVIL_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL
40	1e-18	113 / 1210	Brain Fetal_TssP

### Overview Map

### Spot





# Correlation Clusters

## Spot Summary: C1

# metagenes = 45  
# genes = 419

<r> metagenes = 0.95

<r> genes = 0.51

beta: r2= 0.02 / log p= -0.27

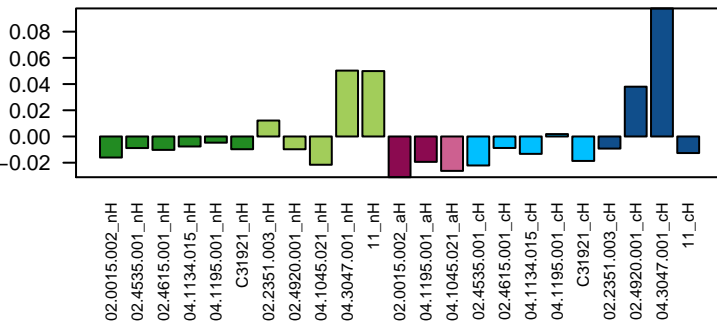
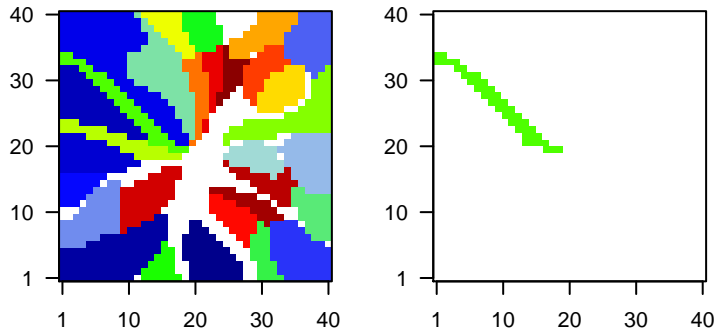
# samples with spot = 3 ( 13 %)

other\_normHNPCC : 2 ( 40 %)

other\_cancerHNPCC : 1 ( 25 %)

### Overview Map

### Spot

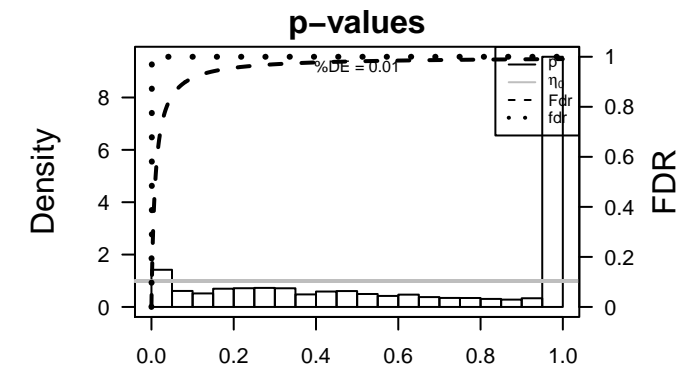


## Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	0.83	-0.21	0.83	ADH1B alcohol dehydrogenase 1B (class I), beta polypeptide [Source:HGNC Symbol;Acc:HGNC:100]
2	ENSG0000001	0.73	-0.29	0.87	SERPINC1 Serpin peptidase inhibitor, clade G (C1 inhibitor), member 1 [Source:HGNC Symbol;Acc:HGNC:100]
3	ENSG0000001	0.67	-0.26	0.4	GREM1 gremlin 1, DAN family BMP antagonist [Source:HGNC Symbol;Acc:HGNC:100]
4	ENSG0000001	0.86	-0.14	0.98	LHFP lipoma HMGIC fusion partner [Source:HGNC Symbol;Acc:HGNC:100]
5	ENSG0000001	0.64	-0.45	0.66	LUM lumican [Source:HGNC Symbol;Acc:HGNC:6724]
6	ENSG0000001	0.63	-0.23	0.85	LDLRAD1 low density lipoprotein receptor class A domain containing 2 [Source:HGNC Symbol;Acc:HGNC:100]
7	ENSG0000001	0.62	-0.35	0.47	BST2 bone marrow stromal cell antigen 2 [Source:HGNC Symbol;Acc:HGNC:100]
8	ENSG0000001	0.61	-0.32	0.77	C1R complement component 1, r subcomponent [Source:HGNC Symbol;Acc:HGNC:100]
9	ENSG0000001	0.51	-0.17	0.76	IL33 interleukin 33 [Source:HGNC Symbol;Acc:HGNC:16028]
10	ENSG0000001	0.49	-0.17	0.87	PLS3 plastin 3 [Source:HGNC Symbol;Acc:HGNC:9091]
11	ENSG0000001	0.47	-0.19	0.69	WSB1 WD repeat and SOCS box containing 1 [Source:HGNC Symbol;Acc:HGNC:100]
12	ENSG0000000	0.46	-0.19	0.79	LAMB1 laminin, beta 1 [Source:HGNC Symbol;Acc:HGNC:6486]
13	ENSG0000001	0.42	-0.11	0.83	PER1 period circadian clock 1 [Source:HGNC Symbol;Acc:HGNC:8000]
14	ENSG0000001	0.42	-0.13	0.82	NFIL3 nuclear factor, interleukin 3 regulated [Source:HGNC Symbol;Acc:HGNC:100]
15	ENSG0000001	0.41	-0.24	0.67	VAMP5 vesicle-associated membrane protein 5 [Source:HGNC Symbol;Acc:HGNC:100]
16	ENSG0000002	0.4	-0.14	0.74	COL5A2 collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:HGNC:100]
17	ENSG0000001	0.4	-0.19	0.75	KCTD12 potassium channel tetramerization domain containing 12 [Source:HGNC Symbol;Acc:HGNC:100]
18	ENSG0000001	0.4	-0.09	0.97	TNS2 tensin 2 [Source:HGNC Symbol;Acc:HGNC:19737]
19	ENSG0000001	0.39	-0.07	0.95	FZD4 frizzled class receptor 4 [Source:HGNC Symbol;Acc:HGNC:4000]
20	ENSG0000001	0.39	-0.11	0.95	CRISPLD2 cysteine-rich secretory protein LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:100]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	6e-29	158 / 3109	Colon TssP_Colon
2	5e-20	191 / 5039	Lymph HOPP_Repressed
3	1e-14	120 / 2838	Lymph HOPP_Poised_promoter
4	5e-13	32 / 326	GSE/ SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP
5	1e-11	127 / 3406	Colon ReprPC_Colon
6	3e-11	114 / 2956	Brain Fetal_TssA
7	5e-10	85 / 2041	Colon EnhP_Colon
8	3e-09	23 / 249	GSE/ BOQUEST_STEM_CELL_UP
9	4e-09	58 / 1210	Brain Fetal_TssP
10	7e-09	31 / 445	GSE/ CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN
11	1e-08	49 / 966	GSE/ BENPORATH_EED_TARGETS
12	3e-08	31 / 478	GSE/ LIM_MAMMARY_STEM_CELL_UP
13	4e-08	1 / 16	Cancer LIU_PROSTATE_CANCER_DN
14	4e-08	104 / 2947	Colon ReprPCWk_Colon
15	4e-08	47 / 945	GSE/ NABA_MATRISOME
16	5e-08	50 / 1041	GSE/ BENPORATH_ES_WITH_H3K27ME3
17	1e-07	22 / 281	GSE/ WANG_MLL_TARGETS
18	3e-07	28 / 442	Colon Lembcke_TCGA_meth_kmeans_E_CIMP_H_UP
19	3e-07	18 / 202	CC extracellular matrix
20	6e-07	15 / 148	Colon Marisa_CRC-cluster-a
21	6e-07	22 / 306	BP extracellular matrix organization
22	8e-07	20 / 261	Lymph LENZ_Stromal signature 1
23	8e-07	20 / 261	GSE/ NABA_CORE_MATRISOME
24	1e-06	36 / 711	GSE/ LEE_BMP2_TARGETS_UP
25	1e-06	20 / 270	CC proteinaceous extracellular matrix
26	1e-06	155 / 5285	Toxic LU_BPDE 0.005 DN
27	1e-06	19 / 248	GSE/ ONDER_CDH1_TARGETS_2_UP
28	2e-06	22 / 329	GSE/ IWANAGA_CARCINOGENESIS_BY_KRAS_PTEN_DN
29	3e-06	21 / 310	Colon Lembcke_TCGA_meth_kmeans_A_Cluster4_DN
30	3e-06	17 / 215	GSE/ SENESE_HDAC1_AND_HDAC2_TARGETS_DN
31	4e-06	43 / 971	GSE/ BENPORATH_SUZ12_TARGETS
32	4e-06	45 / 1040	GSE/ MEISSNER_BRAIN_HCP_WITH_H3K4ME3_AND_H3K27ME3
33	5e-06	34 / 692	GSE/ WONG_ADULT_TISSUE_STEM_MODULE
34	7e-06	54 / 1374	CC extracellular region
35	1e-05	8 / 53	MF extracellular matrix structural constituent
36	1e-05	30 / 604	GSE/ BENPORATH_PRC2_TARGETS
37	2e-05	36 / 804	GSE/ CUI_TCF21_TARGETS_2_DN
38	2e-05	24 / 436	GSE/ SMID_BREAST_CANCER_NORMAL_LIKE_UP
39	3e-05	15 / 203	GSE/ CAIRO_HEPATOBLASTOMA_CLASSES_DN
40	3e-05	35 / 787	Brain Overlap_fetal_midbrain_TssP





# Correlation Clusters

## Spot Summary: D1

# metagenes = 36  
# genes = 318

<r> metagenes = 0.96

<r> genes = 0.48

beta: r2= 0 / log p= -0.1

# samples with spot = 0 ( 0 %)

## Spot Genelist

Rank	ID	max e	r	min e	Description
					Symbol
1	ENSG0000001	0.22	-0.08	0.57	GPX7 glutathione peroxidase 7 [Source:HGNC Symbol;Acc:HGNC:20101]
2	ENSG0000001	0.2	-0.15	0.6	SLC25A20olute carrier family 25 (mitochondrial iron transporter), memt
3	ENSG0000001	0.2	-0.14	0.41	APOL2 apolipoprotein L, 2 [Source:HGNC Symbol;Acc:HGNC:619]
4	ENSG0000001	0.18	-0.1	0.84	INTS3 integrator complex subunit 3 [Source:HGNC Symbol;Acc:HGNC:10012]
5	ENSG0000001	0.18	-0.1	0.74	WBP1L WW domain binding protein 1-like [Source:HGNC Symbol;Acc:HGNC:10012]
6	ENSG0000002	0.18	-0.07	0.87	S1PR3 sphingosine-1-phosphate receptor 3 [Source:HGNC Symbol;Acc:HGNC:10012]
7	ENSG0000001	0.18	-0.1	0.78	ZNF337 zinc finger protein 337 [Source:HGNC Symbol;Acc:HGNC:15101]
8	ENSG0000001	0.18	-0.11	0.86	NXF1 nuclear RNA export factor 1 [Source:HGNC Symbol;Acc:HGNC:10012]
9	ENSG0000002	0.17	-0.08	0.83	ACAD11 acyl-CoA dehydrogenase family, member 11 [Source:HGNC Symbol;Acc:HGNC:10012]
10	ENSG0000001	0.16	-0.06	0.92	SENP7 SUMO1/sentrin specific peptidase 7 [Source:HGNC Symbol;Acc:HGNC:10012]
11	ENSG0000002	0.16	-0.08	0.8	RING1 ring finger protein 1 [Source:HGNC Symbol;Acc:HGNC:10012]
12	ENSG0000001	0.16	-0.08	0.66	RASSF4 Ras association (RalGDS/AF-6) domain family member 4 [Source:HGNC Symbol;Acc:HGNC:10012]
13	ENSG0000002	0.16	-0.11	0.59	WBP1 WW domain binding protein 1 [Source:HGNC Symbol;Acc:HGNC:10012]
14	ENSG0000001	0.16	-0.09	0.66	AMT aminomethyltransferase [Source:HGNC Symbol;Acc:HGNC:10012]
15	ENSG0000001	0.16	-0.05	0.9	TCF4 transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:1161]
16	ENSG0000001	0.16	-0.12	0.69	SIRPA signal-regulatory protein alpha [Source:HGNC Symbol;Acc:HGNC:10012]
17	ENSG0000001	0.15	-0.07	0.82	CSF1 colony stimulating factor 1 (macrophage) [Source:HGNC Syrr
18	ENSG0000000	0.15	-0.14	0.72	RBM5 RNA binding motif protein 5 [Source:HGNC Symbol;Acc:HGNC:10012]
19	ENSG0000002	0.15	-0.04	0.86	LOC100128108
20	ENSG0000000	0.15	-0.07	0.89	NISCH nischarin [Source:HGNC Symbol;Acc:HGNC:18006]

## Geneset Overrepresentation

Rank	p-value	#in/all	Geneset
1	2e-06	118 / 5039	LympI HOPP_Repressed
2	2e-06	82 / 3109	Colon TssP_Colon
3	2e-05	84 / 3406	Colon ReprPC_Colon
4	7e-05	73 / 2947	Colon ReprPCWk_Colon
5	1e-04	19 / 442	Colon Lembcke_TCGA_meth_kmeans_E_CIMP_H_UP_
6	2e-04	4 / 19	BP regulation of cardiac muscle contraction
7	1e-03	29 / 971	GSE/ BENPORATH_SUZ12_TARGETS
8	1e-03	3 / 13	BP cardiac muscle cell proliferation
9	1e-03	3 / 14	BP cAMP catabolic process
10	1e-03	3 / 14	BP sulfate transport
11	1e-03	30 / 1041	GSE/ BENPORATH_ES_WITH_H3K27ME3
12	1e-03	15 / 386	Colon Lembcke_TCGA_meth_kmeans_H_CIMP_L_UP_CIMP_H_DN
13	1e-03	19 / 551	MF G-protein coupled receptor activity
14	2e-03	6 / 79	GSE/ YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_2
15	2e-03	10 / 204	Glio Hopp_Sturm_GBM_Epi3_F_RTK_IL_UP_adult_fetus_K27_DN
16	2e-03	6 / 82	BP hemopoiesis
17	2e-03	3 / 17	GSE/ KEGG_ASTHMA
18	2e-03	13 / 326	BP inflammatory response
19	2e-03	2 / 5	GSE/ OKAMOTO_LIVER_CANCER_MULTICENTRIC_OCCURRENCE_DN
20	3e-03	3 / 18	GSE/ BIOCARTE_ETS_PATHWAY
21	3e-03	22 / 718	BP G-protein coupled receptor signaling pathway
22	3e-03	14 / 374	GSE/ HATADA_METHYLATED_IN_LUNG_CANCER_UP
23	4e-03	15 / 429	GSE/ MIKKELSEN_NPC_ICP_WITH_H3K4ME3
24	4e-03	4 / 42	BP outflow tract morphogenesis
25	5e-03	34 / 1327	Brain Mid_Frontal_Lobe_TssP
26	5e-03	3 / 22	GSE/ BIOCARTE_DC_PATHWAY
27	6e-03	3 / 23	MF carboxypeptidase activity
28	6e-03	98 / 4879	Color Quies1_Colon
29	6e-03	18 / 582	Chr Chr 15
30	6e-03	34 / 1356	Brain Fetal_K9K27me3
31	6e-03	3 / 24	MF 3',5'-cyclic-nucleotide phosphodiesterase activity
32	6e-03	3 / 24	BP artery morphogenesis
33	7e-03	2 / 8	GSE/ BRUNEAU_HEART_GREAT_VESSELS_AND_VALVULOGENESIS
34	8e-03	14 / 417	Glio Hopp_Sturm_GBM_Epi3_no_zentr_3_RTK_IL_UP_adult_fetus_K27_DN
35	8e-03	14 / 419	BP synaptic transmission
36	8e-03	9 / 215	miRN hsa-miR-196a
37	8e-03	3 / 26	GSE/ BIOCARTE_INFLAM_PATHWAY
38	9e-03	2 / 9	GSE/ BUDHU_LIVER_CANCER_METASTASIS_UP
39	9e-03	2 / 9	GSE/ SEIKE_LUNG_CANCER_POOR_SURVIVAL
40	9e-03	61 / 2838	Lymp HOPP_Poised_promoter

### Overview Map

### Spot

