

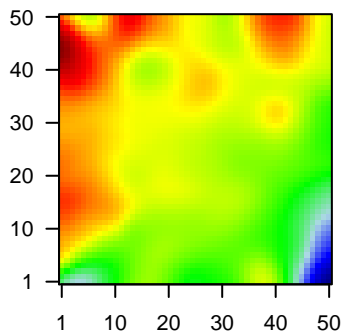
GW_141

Global Summary

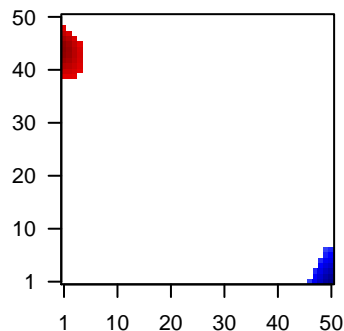
%DE = 0.12
 # genes with fdr < 0.2 = 1504 (714 + / 790 -)
 # genes with fdr < 0.1 = 1130 (525 + / 605 -)
 # genes with fdr < 0.05 = 874 (400 + / 474 -)
 # genes with fdr < 0.01 = 602 (273 + / 329 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.14
 <fdr> = 0.88

Profile



Regulated Spots



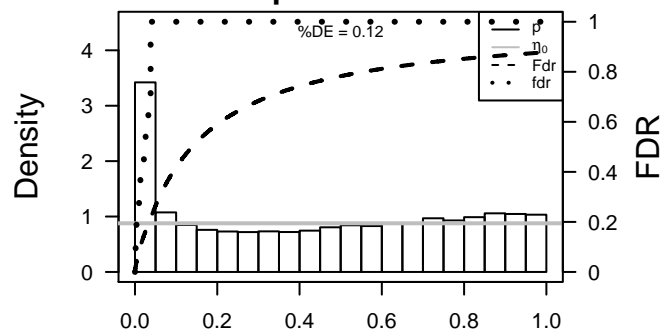
Global Genelist

Rank	ID	log(FC)	fdr p-value	Description Metagene
1	131	1.7	2e-16 6e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	57016	2.08	2e-16 6e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
3	441282	2.09	2e-16 6e-14	1 x 49 aldo-keto reductase family 1, member B15 [Source:HGNC S]
4	8644	1.64	2e-16 6e-14	1 x 50 aldo-keto reductase family 1, member C3 [Source:HGNC Syr
5	1109	1.51	2e-16 6e-14	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Syr
6	445328	1.44	2e-16 6e-14	4 x 46 Rho guanine nucleotide exchange factor (GEF) 35 [Source:H
7	84707	-1.71	2e-16 6e-14	50 x 48 brain expressed X-linked 2 [Source:HGNC Symbol;Acc:3093
8	339512	1.93	2e-16 6e-14	50 x 50 chromosome 1 open reading frame 110 [Source:HGNC Symt
9	29923	1.53	2e-16 6e-14	4 x 44 hypoxia inducible lipid droplet-associated [Source:HGNC Syr
10	1001	1.44	2e-16 6e-14	1 x 43 cadherin 3, type 1, P-cadherin (placental) [Source:HGNC Sy
11	1066	2.55	2e-16 6e-14	14 x 50 carboxylesterase 1 [Source:HGNC Symbol;Acc:1863]
12	51200	1.6	2e-16 6e-14	1 x 44 carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
13	57834	1.69	2e-16 6e-14	13 x 50 cytochrome P450, family 4, subfamily F, polypeptide 11 [Sour
14	92196	-1.69	2e-16 6e-14	3 x 50 death associated protein-like 1 [Source:HGNC Symbol;Acc:2
15	2167	-1.52	2e-16 6e-14	1 x 44 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol
16	54855	-1.49	2e-16 6e-14	49 x 1 family with sequence similarity 46, member C [Source:HGNC
17	10804	1.65	2e-16 6e-14	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A
18	2877	2	2e-16 6e-14	1 x 50 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Syr
19	56169	1.52	2e-16 6e-14	1 x 46 gasdermin C [Source:HGNC Symbol;Acc:7151]
20	3040	1.53	2e-16 6e-14	4 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	15.02	NULL	743	Chr Chr 7
2	10.76	NULL	21	CC cornified envelope
3	9.02	NULL	717	Chr Chr 16
4	8.99	NULL	530	Cancer Lembecke_Normal vs Adenoma
5	8.32	NULL	142	Glio wilscher_GBM_Verhaak-CL_expression_C_up
6	8.32	NULL	142	Glio wilscher_GBM_Verhaak-PNmut_expression_C_down
7	8.27	NULL	135	H.Tiss WIRTH_Mucosa
8	8.1	NULL	1033	Chr Chr 2
9	7.92	NULL	76	BP epidermis development
10	7.89	NULL	53	BP keratinocyte differentiation
11	7.84	NULL	572	Disease GUDJ_poriasis up
12	7.81	NULL	1720	Chr Chr 1
13	6.81	NULL	42	BP keratinization
14	6.52	NULL	15	GSEA C2AIGNER_ZEB1_TARGETS
15	6.25	NULL	15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
16	6	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_4
17	5.71	NULL	4640	CC nucleus
18	5.69	NULL	370	BP mitotic cell cycle
19	5.62	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
20	5.39	NULL	4	MMML C6A3CIEJ_MMML 23
<i>Underexpressed</i>				
1	-15.32	NULL	553	Cancer Lembecke_Colonc Inflammation
2	-11.94	NULL	914	Chr Chr 3
3	-11.54	NULL	190	CC extracellular matrix
4	-11.08	NULL	250	LymphomaENZ_Stromal signature 1
5	-10.79	NULL	15	CC MHC class II protein complex
6	-10.75	NULL	312	BP immune response
7	-10.71	NULL	630	Chr Chr X
8	-10.37	NULL	417	H.Tiss WIRTH_Immune system
9	-10.15	NULL	1182	CC extracellular region
10	-9.39	NULL	265	Glio wilscher_GBM_Verhaak-CL_expression_B_up
11	-9.39	NULL	265	Glio wilscher_GBM_Verhaak-MES_expression_B_up
12	-9.39	NULL	265	Glio wilscher_GBM_Verhaak-PNwt_expression_B_down
13	-9.39	NULL	265	Glio wilscher_GBM_Verhaak-PNmut_expression_B_down
14	-9.21	NULL	683	CC extracellular space
15	-8.96	NULL	866	Chr Chr 12
16	-8.88	NULL	316	Cancer SPANG_BCL6-index2
17	-8.53	NULL	47	BP antigen processing and presentation
18	-8.42	NULL	375	Disease GUDJ_poriasis down
19	-8.14	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
20	-8.11	NULL	16	MMML C6A3CIEJ_MMML 1

p-values



GW_141

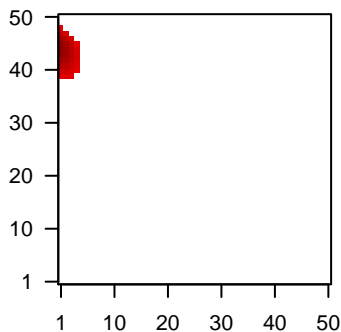
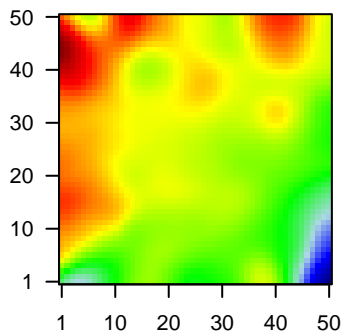
Local Summary

%DE = 0.68
 # metagenes = 33
 # genes = 363
 # genes in genesets = 356
 # genes with $fdr < 0.1$ = 212 (192 + / 20 -)
 # genes with $fdr < 0.05$ = 199 (180 + / 19 -)
 # genes with $fdr < 0.01$ = 139 (129 + / 10 -)

$\langle r \rangle$ metagenes = 0.92
 $\langle r \rangle$ genes = 0.34
 $\langle FC \rangle = 0.4$
 $\langle \text{shrinkage-t} \rangle = 14.23$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.47$

Profile

Spot



Local Genelist

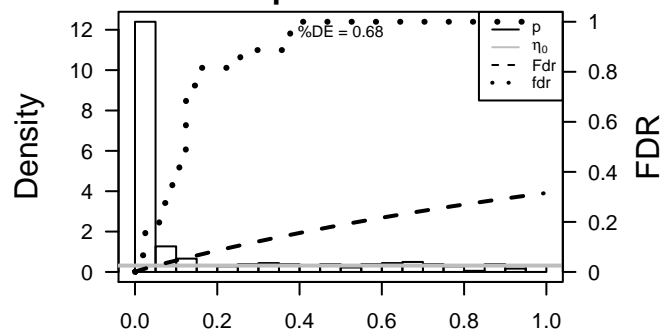
Rank	ID	log(FC)	fdr	p-value	Description
1	29923	1.53	2e-16	2e-15	4 x 44 hypoxia inducible lipid droplet-associated [Source:HGNC Syr
2	1001	1.44	2e-16	2e-15	1 x 43 cadherin 3, type 1, P-cadherin (placental) [Source:HGNC Sy
3	51200	1.6	2e-16	2e-15	1 x 44 carboxypeptidase A4 [Source:HGNC Symbol;Acc:15740]
4	2167	-1.52	2e-16	2e-15	1 x 44 fatty acid binding protein 4, adipocyte [Source:HGNC Symbol
5	10804	1.65	2e-16	2e-15	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A
6	56169	1.52	2e-16	2e-15	1 x 46 gasdermin C [Source:HGNC Symbol;Acc:7151]
7	29094	1.71	2e-16	2e-15	1 x 48 lectin, galactoside-binding-like [Source:HGNC Symbol;Acc:2
8	3552	1.59	2e-16	2e-15	1 x 43 interleukin 1, alpha [Source:HGNC Symbol;Acc:5991]
9	56901	1.76	2e-16	2e-15	1 x 44 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-li
10	780851	1.96	2e-16	2e-15	2 x 39 small nucleolar RNA, C/D box 3A [Source:HGNC Symbol;Acc
11	780853	1.98	2e-16	2e-15	2 x 39 small nucleolar RNA, C/D box 3C [Source:HGNC Symbol;Acc
12	780854	1.95	2e-16	2e-15	2 x 39 small nucleolar RNA, C/D box 3D [Source:HGNC Symbol;Acc
13	6706	2.33	2e-16	2e-15	1 x 48 small proline-rich protein 2G [Source:HGNC Symbol;Acc:112
14	64127	1.44	4e-16	3e-14	1 x 45 nucleotide-binding oligomerization domain containing 2 [Sou
15	414325	1.43	7e-16	3e-14	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
16	154	1.42	9e-16	2e-12	1 x 40 adrenoceptor beta 2, surface [Source:HGNC Symbol;Acc:286
17	56300	1.34	3e-14	2e-12	1 x 47 interleukin 36, gamma [Source:HGNC Symbol;Acc:15741]
18	3861	1.23	3e-14	5e-12	1 x 45 keratin 14 [Source:HGNC Symbol;Acc:6416]
19	5803	1.32	8e-14	1e-11	1 x 45 protein tyrosine phosphatase, receptor-type, Z polypeptide 1
20	1828	1.3	2e-13	5e-11	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	18.15	NULL	91 / 572	Disease GUDJ_psooriasis up
2	16.48	NULL	39 / 135	H.Tiss WIRTH_Mucosa
3	15.14	NULL	8 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
4	14.93	NULL	6 / 15	GSEA C2AIGNER_ZEB1_TARGETS
5	12.59	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
6	12.49	NULL	18 / 76	BP epidermis development
7	12.32	NULL	11 / 21	CC desmosome
8	11.44	NULL	4 / 13	BP intermediate filament cytoskeleton organization
9	11.33	NULL	5 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
10	10.91	NULL	6 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
11	10.86	NULL	3 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
12	10.76	NULL	5 / 12	BP hemidesmosome assembly
13	9.99	NULL	5 / 15	CC connexon complex
14	9.63	NULL	2 / 8	GSEA C2MILIC_FAMILIAL_ADENOMATOUS_POLYPOSIIS_UP
15	9.31	NULL	19 / 82	CC intermediate filament
16	9.03	NULL	1 / 4	GSEA C2BUDHU_LIVER_CANCER_METASTASIS_DN
17	8.93	NULL	3 / 9	GSEA C2WANG_RESPONSE_TO_PACLITAXEL_VIA_MAPK8_UP
18	8.85	NULL	4 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
19	8.78	NULL	5 / 21	CC cornified envelope
20	8.46	NULL	9 / 53	BP keratinocyte differentiation
21	8	NULL	11 / 82	MF structural constituent of cytoskeleton
22	7.92	NULL	2 / 15	MF interleukin-1 receptor binding
23	7.6	NULL	3 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN
24	7.42	NULL	4 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
25	7.41	NULL	3 / 25	BP response to zinc ion
26	7.3	NULL	2 / 8	GSEA C2DORN_ADENOVIRUS_INFECTION_24HR_UP
27	7.17	NULL	6 / 21	CC gap junction
28	7.15	NULL	4 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_4
29	7.12	NULL	1 / 6	GSEA C2SEIKE_LUNG_CANCER_POOR_SURVIVAL
30	7.1	NULL	6 / 42	BP keratinization
31	7.09	NULL	3 / 16	GSEA C2YANG_BREAST_CANCER_ESR1_DN
32	7.02	NULL	9 / 85	Glio laffaire_hypermeth_LGG_vs_control
33	6.9	NULL	4 / 10	MF gap junction channel activity
34	6.82	NULL	3 / 11	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP
35	6.75	NULL	1 / 7	GSEA C2KONDO_PROSTATE_CANCER_WITH_H3K27ME3
36	6.72	NULL	2 / 14	GSEA C2HOEGERKORP_CD44_TARGETS_DIRECT_UP
37	6.69	NULL	3 / 10	BP negative regulation of interleukin-2 production
38	6.66	NULL	6 / 32	CC cell-cell adherens junction
39	6.37	NULL	2 / 21	BP positive regulation of cytokine production
40	6.33	NULL	7 / 83	Glio Christensen_hypermethylated_in_secondary_glioblastoma

p-values



GW_141

Local Summary

%DE = 0.92
 # metagenes = 23
 # genes = 383
 # genes in genesets = 381

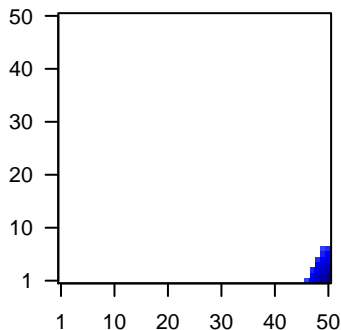
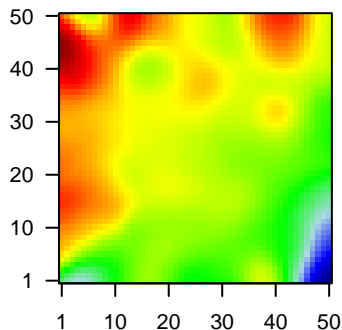
genes with $fdr < 0.1 = 339$ (0 + / 339 -)
 # genes with $fdr < 0.05 = 298$ (0 + / 298 -)
 # genes with $fdr < 0.01 = 227$ (0 + / 227 -)

$\langle r \rangle$ metagenes = 0.94
 $\langle r \rangle$ genes = 0.47

$\langle FC \rangle = -0.58$
 $\langle \text{shrinkage-t} \rangle = -20.29$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.34$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	54855	-1.49	2e-16	9e-16	49 x 1 family with sequence similarity 46, member C [Source:HGNC
2	3109	-1.51	2e-16	9e-16	50 x 1 major histocompatibility complex, class II, DM beta [Source:H
3	3122	-1.6	2e-16	9e-16	50 x 1 major histocompatibility complex, class II, DR alpha [Source:!
4	3488	-1.54	2e-16	9e-16	50 x 7 insulin-like growth factor binding protein 5 [Source:HGNC Sy
5	3512	-1.67	2e-16	9e-16	50 x 1 immunoglobulin J polypeptide, linker protein for immunoglobu
6	3543	-2.62	2e-16	9e-16	49 x 1 immunoglobulin lambda-like polypeptide 1 [Source:HGNC S)
7	23643	-1.45	2e-16	9e-16	50 x 3 lymphocyte antigen 96 [Source:HGNC Symbol;Acc:17156]
8	10628	-1.5	2e-16	9e-16	48 x 1 thioredoxin interacting protein [Source:HGNC Symbol;Acc:16
9	894	-1.43	9e-16	1e-14	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
10	57172	-1.42	1e-15	7e-14	49 x 1 calcium/calmodulin-dependent protein kinase IG [Source:HG
11	5880	-1.39	3e-15	8e-13	50 x 1 ras-related C3 botulinum toxin substrate 2 (rho family, small C
12	10537	-1.35	3e-14	8e-13	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
13	3002	-1.33	5e-14	9e-13	49 x 1 granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated
14	3113	-1.32	1e-13	9e-13	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source
15	713	-1.31	1e-13	6e-11	50 x 1 complement component 1, q subcomponent, B chain [Source
16	1363	-1.23	4e-12	6e-11	50 x 7 carboxypeptidase E [Source:HGNC Symbol;Acc:2303]
17	348	-1.22	5e-12	6e-11	50 x 1 apolipoprotein E [Source:HGNC Symbol;Acc:613]
18	260436	-1.22	6e-12	2e-10	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc
19	347	-1.2	1e-11	1e-09	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
20	864	-1.15	7e-11	1e-09	46 x 1 runt-related transcription factor 3 [Source:HGNC Symbol;Acc

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-26.84	NULL	12 / 15	CC MHC class II protein complex
2	-23.45	NULL	91 / 417	H.Tiss WIRTH_Immune system
3	-21.8	NULL	109 / 553	Cancer Lembcke_Colonc Inflammation
4	-20.01	NULL	3 / 5	GSEA C2WONG_ENDOMETRIAL_CANCER_LATE
5	-19.69	NULL	59 / 312	BP immune response
6	-16.91	NULL	15 / 47	BP antigen processing and presentation
7	-15.91	NULL	4 / 8	GSEA C2GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_DN
8	-15.75	NULL	48 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
9	-15.75	NULL	48 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
10	-15.75	NULL	48 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
11	-15.75	NULL	48 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
12	-15.19	NULL	7 / 12	GSEA C2ZHAN_MULTIPLE_MYELOMA_DN
13	-15.04	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDPD_SIGNATURE
14	-14.75	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
15	-14.25	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
16	-14.18	NULL	3 / 7	GSEA C2GRAHAM_CML_DIVIDING_VS_NORMAL_DIVIDING_DN
17	-14.02	NULL	5 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
18	-13.98	NULL	4 / 7	Glio Donson-cytotoxic effectors-associated with LTS in HGA
19	-13.81	NULL	8 / 28	CC transport vesicle membrane
20	-13.79	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HG
21	-13.49	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
22	-12.81	NULL	7 / 23	CC integral to lumenal side of endoplasmic reticulum membrane
23	-12.56	NULL	18 / 74	BP regulation of immune response
24	-12.25	NULL	6 / 13	GSEA C2HAHTOLA_CTL_PATHOGENESIS
25	-12.23	NULL	1 / 6	H.Tiss WIRTH_Bone marrow
26	-12.19	NULL	5 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
27	-12.03	NULL	2 / 4	GSEA C2REACTOME_CLASSICAL_ANTIBODY_MEDIATED_COMPLEMEN
28	-11.95	NULL	34 / 316	Cancer SPANG_BCL6-index2
29	-11.83	NULL	15 / 60	BP T cell costimulation
30	-11.77	NULL	9 / 35	CC trans-Golgi network membrane
31	-11.6	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
32	-11.19	NULL	14 / 87	BP antigen processing and presentation of exogenous peptide antigen
33	-11.16	NULL	6 / 16	GSEA C2FERRANDO_TAL1_NEIGHBORS
34	-11.09	NULL	2 / 3	GSEA C2KEGG_VIRAL_MYOCARDITIS
35	-10.97	NULL	5 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS
36	-10.82	NULL	4 / 14	MF lipid transporter activity
37	-10.74	NULL	4 / 7	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINER
38	-10.72	NULL	16 / 84	BP T cell receptor signaling pathway
39	-10.67	NULL	2 / 4	MMML C2SCIEJ_MMML 2
40	-10.64	NULL	4 / 8	LymphomaMASCQUE_ABC_UP

p-values

