

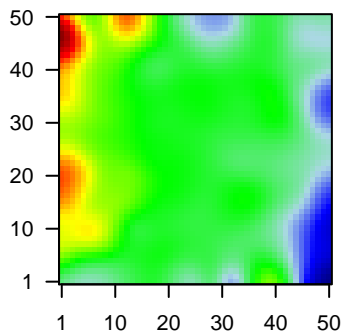
GW_181

Global Summary

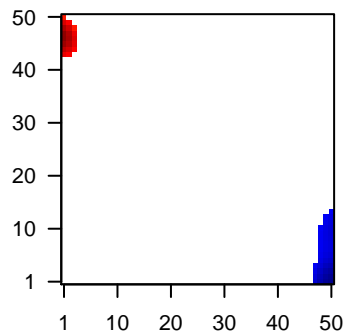
%DE = 0.12
 # genes with fdr < 0.2 = 1439 (777 + / 662 -)
 # genes with fdr < 0.1 = 1110 (602 + / 508 -)
 # genes with fdr < 0.05 = 894 (490 + / 404 -)
 # genes with fdr < 0.01 = 487 (282 + / 205 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.15
 <fdr> = 0.88

Profile



Regulated Spots



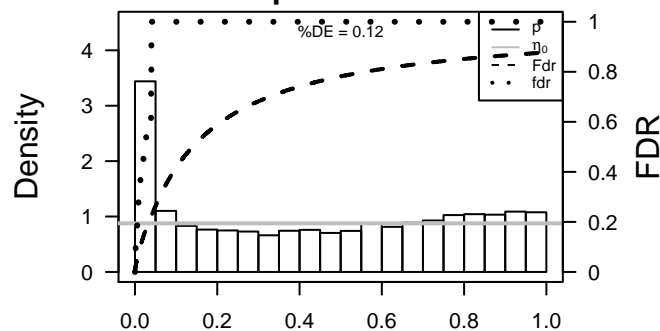
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	216	-1.71	2e-16	9e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC
2	401138	1.73	2e-16	9e-14	1 x 5 amelotin [Source:HGNC Symbol;Acc:33188]
3	51806	2.13	2e-16	9e-14	4 x 50 calmodulin-like 5 [Source:HGNC Symbol;Acc:18180]
4	1152	1.62	2e-16	9e-14	1 x 17 creatine kinase, brain [Source:HGNC Symbol;Acc:1991]
5	22802	-1.78	2e-16	9e-14	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
6	49860	-2.26	2e-16	9e-14	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
7	27065	1.63	2e-16	9e-14	1 x 46 Homo sapiens neuron specific gene family member 1 (NSG1)
8	414325	2.03	2e-16	9e-14	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
9	1673	1.67	2e-16	9e-14	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
10	1823	1.92	2e-16	9e-14	1 x 45 desmocollin 1 [Source:HGNC Symbol;Acc:3035]
11	1828	2.03	2e-16	9e-14	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
12	2195	-1.85	2e-16	9e-14	1 x 5 FAT atypical cadherin 1 [Source:HGNC Symbol;Acc:3595]
13	10804	1.7	2e-16	9e-14	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A
14	2877	2.53	2e-16	9e-14	1 x 50 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Syr
15	283120	-1.85	2e-16	9e-14	25 x 1 H19, imprinted maternally expressed transcript (non-protein i
16	3040	-1.76	2e-16	9e-14	4 x 1 hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]
17	3043	-1.96	2e-16	9e-14	5 x 1 hemoglobin, beta [Source:HGNC Symbol;Acc:4827]
18	3485	1.7	2e-16	9e-14	11 x 50 insulin-like growth factor binding protein 2, 36kDa [Source:H
19	56300	2.38	2e-16	9e-14	1 x 47 interleukin 36, gamma [Source:HGNC Symbol;Acc:15741]
20	3860	-2.7	2e-16	9e-14	1 x 50 keratin 13 [Source:HGNC Symbol;Acc:6415]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	13.93	NULL	135	H.Tiss WIRTH_Mucosa
2	13.07	NULL	21	CC cornified envelope
3	12.98	NULL	519	Chr Chr 14
4	12.97	NULL	42	BP keratinization
5	9.75	NULL	76	BP epidermis development
6	9.14	NULL	21	CC desmosome
7	8.92	NULL	717	Chr Chr 16
8	7.71	NULL	53	BP keratinocyte differentiation
9	7.3	NULL	572	Disease GUDJ_psooriasis up
10	7.18	NULL	16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
11	7.03	NULL	16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
12	5.86	NULL	15	GSEA C2AIGNER_ZEB1_TARGETS
13	5.77	NULL	33	BP cholesterol biosynthetic process
14	5.6	NULL	534	Chr Chr 8
15	5.58	NULL	44	BP skin development
16	5.5	NULL	16	GSEA C2JAEGER_METASTASIS_DN
17	5.29	NULL	8	GSEA C2NIKOLSKY_BREAST_CANCER_5P15_AMPLICON
18	5	NULL	15	GSEA C2REACTOME_CHOLESTEROL_BIOSYNTHESIS
19	4.96	NULL	449	Chr Chr 20
20	4.95	NULL	13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
<i>Underexpressed</i>				
1	-10.89	NULL	417	H.Tiss WIRTH_Immune system
2	-10.66	NULL	602	Chr Chr 10
3	-9.8	NULL	312	BP immune response
4	-9.31	NULL	553	Cancer Lembcke_Colonc Inflammation
5	-8.2	NULL	274	Lymphoma SPANG_IL21 DN
6	-8.11	NULL	123	BP defense response to virus
7	-8.06	NULL	16	GSEA C2ZHANG_INTERFERON_RESPONSE
8	-8.04	NULL	51	BP type I interferon signaling pathway
9	-7.72	NULL	316	Cancer SPANG_BCL6-index2
10	-7.68	NULL	16	GSEA C2MOSERLE_IFNA_RESPONSE
11	-7.39	NULL	16	GSEA C2JUROSEVIC_RESPONSE_TO_IMIQUIMOD
12	-7.17	NULL	185	Cancer SPANG_LPS-index2
13	-7.06	NULL	699	Chr Chr 5
14	-6.94	NULL	204	BP cytokine-mediated signaling pathway
15	-6.89	NULL	10	GSEA C2GRANDVAUX_IFN_RESPONSE_NOT_VIA_IRF3
16	-6.66	NULL	109	BP response to virus
17	-6.51	NULL	15	GSEA C2LEE_LIVER_CANCER_HEPATOBLAST
18	-6.39	NULL	743	Chr Chr 7
19	-6.31	NULL	31	BP negative regulation of viral genome replication
20	-6.27	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1

p-values



GW_181

Local Summary

%DE = 0.85
 # metagenes = 20
 # genes = 287
 # genes in genesets = 280

genes with $fdr < 0.1$ = 219 (194 + / 25 -)
 # genes with $fdr < 0.05$ = 201 (178 + / 23 -)
 # genes with $fdr < 0.01$ = 178 (160 + / 18 -)

<r> metagenes = 0.91

<r> genes = 0.39

<FC> = 0.6

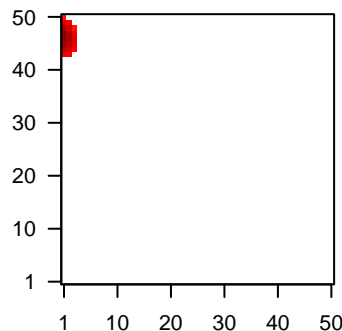
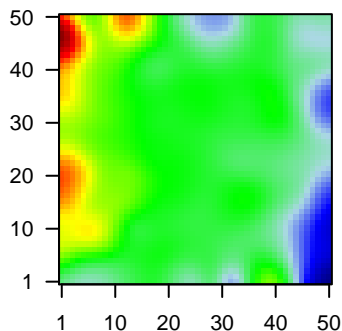
<shrinkage-t> = 21.22

<p-value> = 0

<fdr> = 0.3

Profile

Spot



Local Genelist

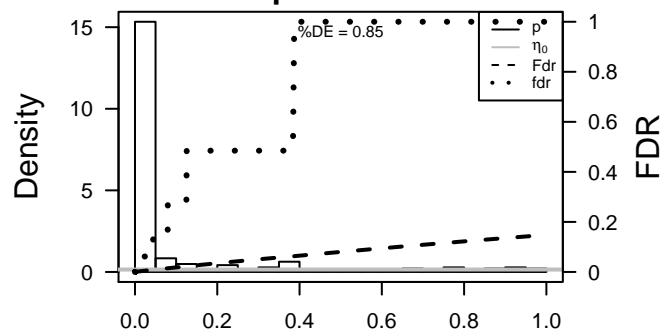
Rank	ID	log(FC)	fdr	p-value	Description
1	22802	-1.78	2e-16	4e-16	1 x 50 chloride channel accessory 4 [Source:HGNC Symbol;Acc:20
2	49860	-2.26	2e-16	4e-16	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
3	27065	1.63	2e-16	4e-16	1 x 46 Homo sapiens neuron specific gene family member 1 (NSG1)
4	414325	2.03	2e-16	4e-16	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
5	1673	1.67	2e-16	4e-16	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
6	1823	1.92	2e-16	4e-16	1 x 45 desmocollin 1 [Source:HGNC Symbol;Acc:3035]
7	1828	2.03	2e-16	4e-16	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
8	10804	1.7	2e-16	4e-16	1 x 47 gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;A
9	2877	2.53	2e-16	4e-16	1 x 50 glutathione peroxidase 2 (gastrointestinal) [Source:HGNC Sy
10	56300	2.38	2e-16	4e-16	1 x 47 interleukin 36, gamma [Source:HGNC Symbol;Acc:15741]
11	3860	-2.7	2e-16	4e-16	1 x 50 keratin 13 [Source:HGNC Symbol;Acc:6415]
12	3851	-2.46	2e-16	4e-16	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
13	388533	1.82	2e-16	4e-16	1 x 49 keratinocyte differentiation-associated protein [Source:HGNC
14	353142	2	2e-16	4e-16	1 x 47 late cornified envelope 3A [Source:HGNC Symbol;Acc:29461
15	84648	2.55	2e-16	4e-16	1 x 48 late cornified envelope 3D [Source:HGNC Symbol;Acc:16615
16	353145	2.06	2e-16	4e-16	1 x 47 late cornified envelope 3E [Source:HGNC Symbol;Acc:29463
17	3963	1.62	2e-16	4e-16	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
18	4118	-2.19	2e-16	4e-16	1 x 50 mal, T-cell differentiation protein [Source:HGNC Symbol;Acc
19	5266	1.54	2e-16	4e-16	1 x 49 peptidase inhibitor 3, skin-derived [Source:HGNC Symbol;Ac
20	84659	1.73	2e-16	4e-16	1 x 48 ribonuclease, RNase A family, 7 [Source:HGNC Symbol;Acc:

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	33.64	NULL	18 / 21	CC cornified envelope
2	28.86	NULL	20 / 42	BP keratinization
3	27.25	NULL	80 / 135	H.Tiss WIRTH_Mucosa
4	24.19	NULL	106 / 572	Disease GUDJ_poriasis up
5	22.82	NULL	12 / 21	CC desmosome
6	19.23	NULL	26 / 76	BP epidermis development
7	19.05	NULL	24 / 53	BP keratinocyte differentiation
8	15.2	NULL	9 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
9	13.01	NULL	3 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
10	12.64	NULL	4 / 10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
11	11.58	NULL	10 / 19	BP peptide cross-linking
12	11.32	NULL	6 / 15	GSEA C2AIGNER_ZEB1_TARGETS
13	10.4	NULL	6 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATE
14	10.38	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
15	10.38	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
16	10.36	NULL	4 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
17	10.06	NULL	5 / 16	GSEA C2JAEGER_METASTASIS_DN
18	9.98	NULL	4 / 21	CC gap junction
19	9.73	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
20	9.38	NULL	3 / 10	GSEA C2NIKOLSKY_BREAST_CANCER_20Q12_Q13_AMPLICON
21	9.09	NULL	3 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
22	8.89	NULL	4 / 27	BP response to bacterium
23	8.8	NULL	4 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
24	8.24	NULL	4 / 15	GSEA C2ONDER_CDH1_TARGETS_2_DN
25	8.21	NULL	6 / 16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
26	8.06	NULL	5 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
27	7.99	NULL	3 / 15	CC connexon complex
28	7.87	NULL	3 / 13	BP intermediate filament cytoskeleton organization
29	7.66	NULL	2 / 8	GSEA C2MCLACHLAN_DENTAL_CARIES_UP
30	7.65	NULL	8 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
31	7.61	NULL	3 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
32	7.45	NULL	3 / 13	GSEA C2HAN_SATB1_TARGETS_DN
33	7.35	NULL	3 / 15	MF interleukin-1 receptor binding
34	7.29	NULL	2 / 11	MF gamma-catenin binding
35	7.26	NULL	4 / 15	GSEA C2LEE_LIVER_CANCER_MYC_E2F1_UP
36	7.24	NULL	4 / 15	GSEA C2LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT
37	7.24	NULL	3 / 13	GSEA C2FARMER_BREAST_CANCER_APOCRINE_VS_LUMINAL
38	7.15	NULL	2 / 9	GSEA C2MCLACHLAN_DENTAL_CARIES_DN
39	7.15	NULL	8 / 73	BP defense response to bacterium
40	6.99	NULL	5 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN

p-values



GW_181

Local Summary

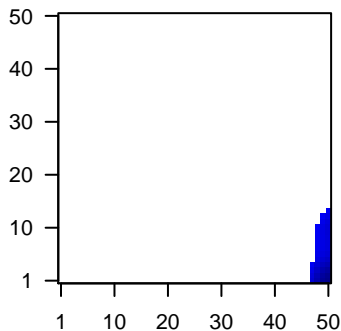
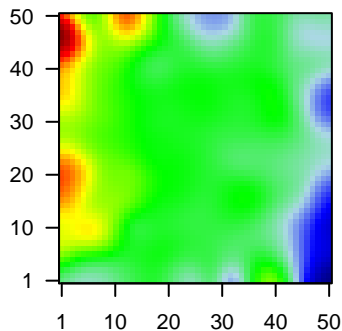
%DE = 0.78
 # metagenes = 42
 # genes = 590
 # genes in genesets = 587

genes with $fdr < 0.1$ = 356 (11 + / 345 -)
 # genes with $fdr < 0.05$ = 242 (6 + / 236 -)
 # genes with $fdr < 0.01$ = 161 (1 + / 160 -)

<r> metagenes = 0.8
 <r> genes = 0.31
 <FC> = -0.43
 <shrinkage-t> = -14.9
 <p-value> = 0.01
 <fdr> = 0.59

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	6192	-1.7	2e-16	3e-14	50 x 9 ribosomal protein S4, Y-linked 1 [Source:HGNC Symbol;Acc:...
2	10628	-1.51	6e-15	1e-12	48 x 1 thioredoxin interacting protein [Source:HGNC Symbol;Acc:16...
3	8857	-1.52	1e-14	2e-11	50 x 13 Fc fragment of IgG binding protein [Source:HGNC Symbol;Ac...
4	23643	-1.46	1e-13	8e-11	50 x 3 lymphocyte antigen 96 [Source:HGNC Symbol;Acc:17156]
5	5920	-1.41	8e-13	3e-10	48 x 1 retinoic acid receptor responder (tazarotene induced) 3 [Sour...
6	894	-1.37	3e-12	1e-09	50 x 4 cyclin D2 [Source:HGNC Symbol;Acc:1583]
7	2634	-1.32	2e-11	1e-09	47 x 1 guanylate binding protein 2, interferon-inducible [Source:HG...
8	6363	-1.31	3e-11	1e-09	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc...
9	2568	-1.31	3e-11	1e-09	50 x 13 gamma-aminobutyric acid (GABA) A receptor, pi [Source:HG...
10	51316	-1.3	4e-11	3e-09	50 x 13 placenta-specific 8 [Source:HGNC Symbol;Acc:19254]
11	7033	-1.29	6e-11	9e-09	50 x 10 trefoil factor 3 (intestinal) [Source:HGNC Symbol;Acc:11757]
12	3113	-1.26	1e-10	9e-09	50 x 1 major histocompatibility complex, class II, DP alpha 1 [Source...
13	6920	-1.25	2e-10	2e-07	50 x 13 transcription elongation factor A (SII), 3 [Source:HGNC Symb...
14	3109	-1.18	2e-09	2e-07	50 x 1 major histocompatibility complex, class II, DM beta [Source:H...
15	260436	-1.16	4e-09	5e-07	50 x 1 follicular dendritic cell secreted protein [Source:HGNC Symbc...
16	3936	-1.14	7e-09	6e-07	50 x 1 lymphocyte cytosolic protein 1 (L-plastin) [Source:HGNC Syr...
17	2745	-1.12	1e-08	6e-07	50 x 3 glutaredoxin (thioltransferase) [Source:HGNC Symbol;Acc:43...
18	10537	-1.11	2e-08	7e-07	50 x 1 ubiquitin D [Source:HGNC Symbol;Acc:18795]
19	1396	-1.09	3e-08	7e-07	50 x 5 cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Ac...
20	7318	-1.09	3e-08	7e-07	48 x 1 ubiquitin-like modifier activating enzyme 7 [Source:HGNC Sy...

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-24.19	NULL	12 / 15	CC MHC class II protein complex
2	-19.62	NULL	94 / 417	H.Tiss WIRTH_Immune system
3	-19.28	NULL	121 / 553	Cancer Lembecke_Colonc Inflammation
4	-16.46	NULL	60 / 312	BP immune response
5	-15.45	NULL	14 / 16	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_D
6	-14.73	NULL	16 / 47	BP antigen processing and presentation
7	-14.26	NULL	3 / 6	GSEA C2SANA_RESPONSE_TO_IFNG_UP
8	-12.88	NULL	2 / 4	MMML C2SCIEJ_MMML 2
9	-12.66	NULL	3 / 7	MMML C2SCIEJ_MMML 5
10	-12.64	NULL	14 / 60	BP T cell costimulation
11	-12.59	NULL	9 / 28	CC transport vesicle membrane
12	-12.38	NULL	6 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
13	-11.99	NULL	5 / 12	BP dendritic cell chemotaxis
14	-11.95	NULL	59 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
15	-11.95	NULL	59 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
16	-11.95	NULL	59 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
17	-11.95	NULL	59 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
18	-11.89	NULL	7 / 21	CC clathrin-coated endocytic vesicle membrane
19	-11.82	NULL	5 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
20	-11.75	NULL	3 / 8	GSEA C2RUNNE_GENDER_EFFECT_UP
21	-11.64	NULL	5 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
22	-11.59	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
23	-11.29	NULL	7 / 23	CC integral to luminal side of endoplasmic reticulum membrane
24	-10.86	NULL	6 / 15	GSEA C2FINAK_BREAST_CANCER_SDP_SIGNATURE
25	-10.82	NULL	36 / 316	Cancer SPANG_BCL6-index2
26	-10.8	NULL	5 / 8	GSEA C2NIELSEN_SYNOVIAL_SARCOMA_DN
27	-10.7	NULL	7 / 14	GSEA C2WU_SILENCED_BY_METHYLATION_IN_BLADDER_CANCER
28	-10.69	NULL	7 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HG...
29	-10.51	NULL	5 / 11	GSEA C2BIOCARTA_THelper_PATHWAY
30	-10.22	NULL	33 / 162	CC external side of plasma membrane
31	-10.02	NULL	5 / 7	GSEA C2LOPEZ_MESOTELIOMA_SURVIVAL_TIME_DN
32	-9.99	NULL	9 / 35	CC trans-Golgi network membrane
33	-9.71	NULL	8 / 16	GSEA C2SU_THYMUS
34	-9.67	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
35	-9.56	NULL	5 / 17	BP positive regulation of neutrophil chemotaxis
36	-9.46	NULL	2 / 6	GSEA C2LUI_THYROID_CANCER_CLUSTER_4
37	-9.33	NULL	3 / 11	GSEA C2FUJII_YBX1_TARGETS_UP
38	-9.29	NULL	19 / 74	BP regulation of immune response
39	-9.28	NULL	7 / 32	CC ER to Golgi transport vesicle membrane
40	-9.19	NULL	5 / 7	GSEA C2TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED

p-values

