

GW_284

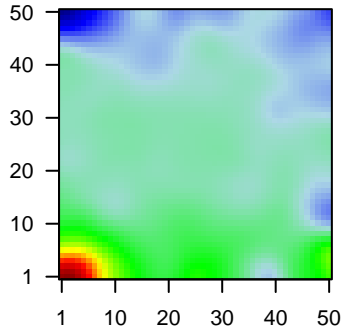
Global Summary

%DE = 0.16
 # genes with $fdr < 0.2$ = 1903 (1123 + / 780 -)
 # genes with $fdr < 0.1$ = 1611 (999 + / 612 -)
 # genes with $fdr < 0.05$ = 1323 (846 + / 477 -)
 # genes with $fdr < 0.01$ = 984 (651 + / 333 -)

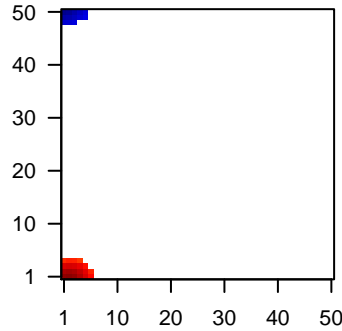
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.08
 <fdr> = 0.84

Profile



Regulated Spots



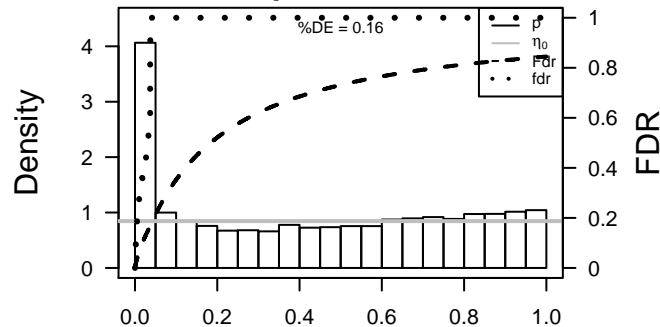
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	2	1.42	2e-16	2e-14	50 x 5 alpha-2-macroglobulin [Source:HGNC Symbol;Acc:7]
2	58	2.33	2e-16	2e-14	25 x 1 actin, alpha 1, skeletal muscle [Source:HGNC Symbol;Acc:12]
3	59	1.92	2e-16	2e-14	3 x 1 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;Acc:13]
4	70	2.92	2e-16	2e-14	25 x 1 actin, alpha, cardiac muscle 1 [Source:HGNC Symbol;Acc:14]
5	72	2.2	2e-16	2e-14	4 x 1 actin, gamma 2, smooth muscle, enteric [Source:HGNC Symbol;Acc:15]
6	131	-2.54	2e-16	2e-14	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide [Source:HGNC Symbol;Acc:16]
7	165	2.13	2e-16	2e-14	3 x 1 AE binding protein 1 [Source:HGNC Symbol;Acc:303]
8	57016	-2.23	2e-16	2e-14	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase) [Source:HGNC Symbol;Acc:17]
9	1109	-1.6	2e-16	2e-14	13 x 50 aldo-keto reductase family 1, member C4 [Source:HGNC Symbol;Acc:18]
10	216	-1.37	2e-16	2e-14	50 x 50 aldehyde dehydrogenase 1 family, member A1 [Source:HGNC Symbol;Acc:19]
11	220	2.21	2e-16	2e-14	4 x 46 aldehyde dehydrogenase 1 family, member A3 [Source:HGNC Symbol;Acc:20]
12	218	-2.91	2e-16	2e-14	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC Symbol;Acc:21]
13	23452	1.83	2e-16	2e-14	3 x 1 angiotensin-like 2 [Source:HGNC Symbol;Acc:490]
14	118429	1.39	2e-16	2e-14	2 x 1 anthrax toxin receptor 2 [Source:HGNC Symbol;Acc:21732]
15	366	1.41	2e-16	2e-14	1 x 1 aquaporin 9 [Source:HGNC Symbol;Acc:643]
16	633	1.83	2e-16	2e-14	3 x 1 biglycan [Source:HGNC Symbol;Acc:1044]
17	387695	-1.64	2e-16	2e-14	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symbol;Acc:21732]
18	114902	1.4	2e-16	2e-14	4 x 1 C1q and tumor necrosis factor related protein 5 [Source:HGNC Symbol;Acc:21732]
19	84290	-1.81	2e-16	2e-14	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
20	6347	1.88	2e-16	2e-14	50 x 4 chemokine (C-C motif) ligand 2 [Source:HGNC Symbol;Acc:21732]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	27.2	NULL	250	Lymphoma
2	24.99	NULL	190	CC extracellular matrix
3	22.26	NULL	242	BP extracellular matrix organization
4	20.31	NULL	553	Cancer Lemboke_Colonc Inflammation
5	19.23	NULL	69	BP extracellular matrix disassembly
6	18.06	NULL	64	BP collagen catabolic process
7	18.03	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
8	17.37	NULL	683	CC extracellular space
9	16.56	NULL	183	CC proteinaceous extracellular matrix
10	16.36	NULL	265	Glio willscher_GBM_Verhaak-CL_expression_B_up
11	16.36	NULL	265	Glio willscher_GBM_Verhaak-MES_expression_B_up
12	16.36	NULL	265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
13	16.36	NULL	265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
14	16.36	NULL	16	MMML C6SCIEJ_MMML 1
15	16.21	NULL	1182	CC extracellular region
16	14.52	NULL	57	MF extracellular matrix structural constituent
17	13.83	NULL	37	BP collagen fibril organization
18	13.74	NULL	403	BP cell adhesion
19	13.72	NULL	11	MF platelet-derived growth factor binding
20	13.09	NULL	15	GSEA C2CROMER_TUMORIGENESIS_UP
<i>Underexpressed</i>				
1	-25.3	NULL	135	H.Tiss WIRTH_Mucosa
2	-10.33	NULL	53	BP keratinocyte differentiation
3	-10.02	NULL	42	BP keratinization
4	-9.53	NULL	21	CC cornified envelope
5	-8.5	NULL	8	GSEA C2LIU_CDX2_TARGETS_DN
6	-7.98	NULL	4640	CC nucleus
7	-7.59	NULL	949	CC nucleoplasm
8	-7.09	NULL	15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
9	-7.04	NULL	82	CC intermediate filament
10	-6.94	NULL	12	BP cellular aldehyde metabolic process
11	-6.72	NULL	19	BP peptide cross-linking
12	-6.54	NULL	10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
13	-6.51	NULL	44	CC keratin filament
14	-6.45	NULL	9	GSEA C2REACTOME_ETHANOL_OXIDATION
15	-6.41	NULL	1720	Chr Chr 1
16	-6.32	NULL	21	CC desmosome
17	-6.3	NULL	595	MF RNA binding
18	-6.13	NULL	10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
19	-6.12	NULL	1318	CC mitochondrion
20	-6.01	NULL	76	BP epidermis development

p-values



GW_284

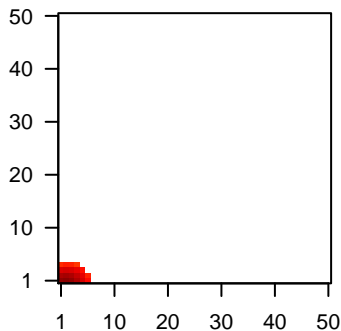
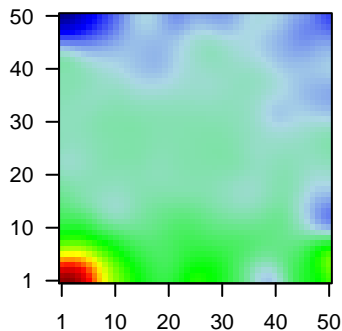
Local Summary

%DE = 0.96
 # metagenes = 21
 # genes = 314
 # genes in genesets = 313
 # genes with $fdr < 0.1 = 301$ (301 + / 0 -)
 # genes with $fdr < 0.05 = 301$ (301 + / 0 -)
 # genes with $fdr < 0.01 = 289$ (289 + / 0 -)

<r> metagenes = 0.95
 <r> genes = 0.38
 <FC> = 1.13
 <shrinkage-t> = 39.58
 <p-value> = 0
 <fdr> = 0.05

Profile

Spot



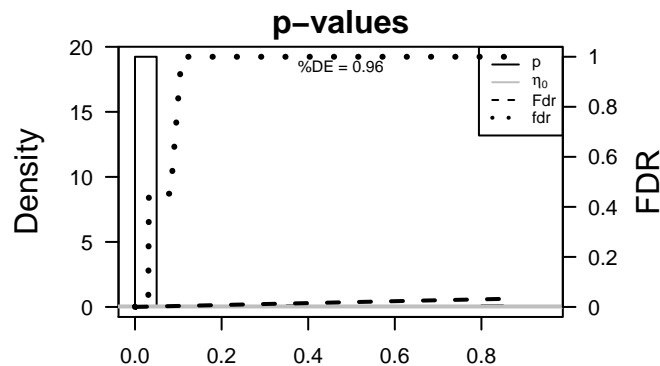
Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	59	1.92	2e-16	3e-17	3 x 1 actin, alpha 2, smooth muscle, aorta [Source:HGNC Symbol;]
2	72	2.2	2e-16	3e-17	4 x 1 actin, gamma 2, smooth muscle, enteric [Source:HGNC Syml
3	165	2.13	2e-16	3e-17	3 x 1 AE binding protein 1 [Source:HGNC Symbol;Acc:303]
4	23452	1.83	2e-16	3e-17	3 x 1 angiotensin-like 2 [Source:HGNC Symbol;Acc:490]
5	118429	1.39	2e-16	3e-17	2 x 1 anthrax toxin receptor 2 [Source:HGNC Symbol;Acc:21732]
6	366	1.41	2e-16	3e-17	1 x 1 aquaporin 9 [Source:HGNC Symbol;Acc:643]
7	633	1.83	2e-16	3e-17	3 x 1 biglycan [Source:HGNC Symbol;Acc:1044]
8	114902	1.4	2e-16	3e-17	4 x 1 C1q and tumor necrosis factor related protein 5 [Source:HGN
9	1000	1.91	2e-16	3e-17	4 x 1 cadherin 2, type 1, N-cadherin (neuronal) [Source:HGNC Sy
10	1306	1.59	2e-16	3e-17	4 x 1 collagen, type XV, alpha 1 [Source:HGNC Symbol;Acc:2192]
11	1277	2.44	2e-16	3e-17	2 x 1 collagen, type I, alpha 1 [Source:HGNC Symbol;Acc:2197]
12	1278	2.14	2e-16	3e-17	2 x 1 collagen, type I, alpha 2 [Source:HGNC Symbol;Acc:2198]
13	1281	2.17	2e-16	3e-17	2 x 1 collagen, type III, alpha 1 [Source:HGNC Symbol;Acc:2201]
14	1282	1.49	2e-16	3e-17	2 x 1 collagen, type IV, alpha 1 [Source:HGNC Symbol;Acc:2202]
15	1289	1.9	2e-16	3e-17	2 x 1 collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]
16	1290	2.06	2e-16	3e-17	2 x 1 collagen, type V, alpha 2 [Source:HGNC Symbol;Acc:2210]
17	1291	1.97	2e-16	3e-17	2 x 1 collagen, type VI, alpha 1 [Source:HGNC Symbol;Acc:2211]
18	1293	1.83	2e-16	3e-17	2 x 1 collagen, type VI, alpha 3 [Source:HGNC Symbol;Acc:2213]
19	83716	1.86	2e-16	3e-17	2 x 1 cysteine-rich secretory protein LCCL domain containing 2 [S
20	1437	1.86	2e-16	3e-17	1 x 4 colony stimulating factor 2 (granulocyte-macrophage) [Sourc

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	41.79	NULL	68 / 190	CC extracellular matrix
2	38.57	NULL	82 / 250	Lymphoma ENZ_Stromal signature 1
3	35.72	NULL	33 / 69	BP extracellular matrix disassembly
4	35.6	NULL	15 / 16	MMML C63CIEJ_MMML 1
5	34.39	NULL	12 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_5
6	33.87	NULL	68 / 242	BP extracellular matrix organization
7	33.24	NULL	28 / 64	BP collagen catabolic process
8	29.27	NULL	8 / 11	MF platelet-derived growth factor binding
9	26.4	NULL	11 / 15	GSEA C2CROMER_TUMORIGENESIS_UP
10	25.51	NULL	8 / 12	miRNA target-29c
11	24.12	NULL	91 / 683	CC extracellular space
12	24.11	NULL	41 / 183	CC proteinaceous extracellular matrix
13	23.97	NULL	15 / 37	BP collagen fibril organization
14	23.84	NULL	20 / 57	MF extracellular matrix structural constituent
15	23.15	NULL	10 / 15	GSEA C2ONDER_CDH1_TARGETS_2_UP
16	22.44	NULL	117 / 1182	CC extracellular region
17	21.82	NULL	74 / 553	Cancer Lembecke_Colonc Inflammation
18	20.16	NULL	11 / 19	MF extracellular matrix binding
19	19.03	NULL	6 / 12	GSEA C2Y_AGING_MIDDLE_UP
20	18.83	NULL	44 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
21	18.83	NULL	44 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
22	18.83	NULL	44 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
23	18.83	NULL	44 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
24	18.69	NULL	7 / 16	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_L
25	18.09	NULL	6 / 13	GSEA C2TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR
26	18.06	NULL	12 / 40	BP cellular response to amino acid stimulus
27	17.75	NULL	12 / 35	Glio Colman_survival_associated
28	17.68	NULL	6 / 10	GSEA C2VERRECCHIA_RESPONSE_TO_TGFB1_C4
29	17.67	NULL	7 / 11	Glio Phillips MES vs Prolif & PN
30	17.45	NULL	18 / 68	CC collagen
31	17.39	NULL	4 / 5	GSEA C2COLLER_MYC_TARGETS_DN
32	17.37	NULL	4 / 8	GSEA C2HAEGERSTRAND_RESPONSE_TO_IMATINIB
33	17.35	NULL	7 / 15	GSEA C2MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP
34	17.25	NULL	23 / 83	CC basement membrane
35	16.92	NULL	6 / 10	GSEA C2JEON_SMAD6_TARGETS_UP
36	16.61	NULL	8 / 15	GSEA C2ONDER_CDH1_SIGNALING_VIA_CTNNB1
37	16.47	NULL	5 / 10	GSEA C2KEGG_ECM_RECEPTOR_INTERACTION
38	16.27	NULL	7 / 16	GSEA C2CROONQUIST_STROMAL_STIMULATION_UP
39	16.14	NULL	24 / 119	Lymphoma OSOLOWSKI_green total
40	15.75	NULL	8 / 16	GSEA C2ROZANOV_MMP14_TARGETS_SUBSET



GW_284

Local Summary

%DE = 0.96
 # metagenes = 13
 # genes = 199
 # genes in genesets = 195

genes with $fdr < 0.1$ = 174 (15 + / 159 -)
 # genes with $fdr < 0.05$ = 168 (14 + / 154 -)
 # genes with $fdr < 0.01$ = 154 (13 + / 141 -)

$\langle r \rangle$ metagenes = 0.98

$\langle r \rangle$ genes = 0.47

$\langle FC \rangle = -0.75$

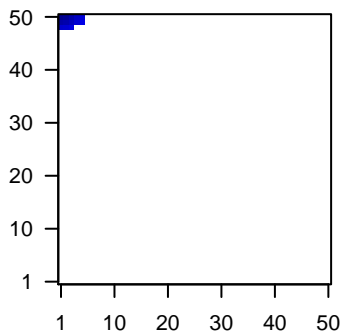
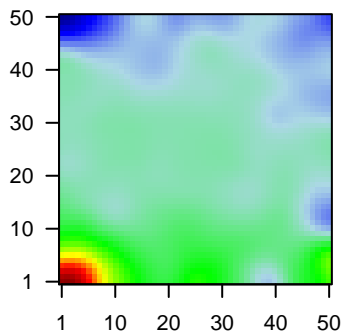
$\langle \text{shrinkage-t} \rangle = -26.31$

$\langle p\text{-value} \rangle = 0$

$\langle fdr \rangle = 0.21$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	131	-2.54	2e-16	5e-17	1 x 50 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide
2	57016	-2.23	2e-16	5e-17	1 x 50 aldo-keto reductase family 1, member B10 (aldose reductase
3	218	-2.91	2e-16	5e-17	1 x 50 aldehyde dehydrogenase 3 family, member A1 [Source:HGNC
4	387695	-1.64	2e-16	5e-17	1 x 49 chromosome 10 open reading frame 99 [Source:HGNC Symt
5	84290	-1.81	2e-16	5e-17	1 x 50 calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
6	9022	-1.4	2e-16	5e-17	1 x 50 chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2
7	49860	-2.53	2e-16	5e-17	1 x 50 cornulin [Source:HGNC Symbol;Acc:1230]
8	1475	-1.75	2e-16	5e-17	1 x 50 cystatin A (steffin A) [Source:HGNC Symbol;Acc:2481]
9	1562	-1.36	2e-16	5e-17	1 x 50 cytochrome P450, family 2, subfamily C, polypeptide 18 [Sou
10	414325	1.36	2e-16	5e-17	1 x 48 defensin, beta 103B [Source:HGNC Symbol;Acc:31702]
11	1673	1.54	2e-16	5e-17	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
12	1828	-1.5	2e-16	5e-17	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
13	115572	-1.43	2e-16	5e-17	1 x 48 family with sequence similarity 46, member B [Source:HGNC
14	163351	-1.55	2e-16	5e-17	1 x 50 guanylate binding protein family, member 6 [Source:HGNC S
15	2941	-1.36	2e-16	5e-17	3 x 50 glutathione S-transferase alpha 4 [Source:HGNC Symbol;Ac
16	29094	-1.39	2e-16	5e-17	1 x 48 lectin, galactoside-binding-like [Source:HGNC Symbol;Acc:2
17	9314	-1.67	2e-16	5e-17	4 x 50 Kruppel-like factor 4 (gut) [Source:HGNC Symbol;Acc:6348]
18	3860	-3.62	2e-16	5e-17	1 x 50 keratin 13 [Source:HGNC Symbol;Acc:6415]
19	192666	-1.96	2e-16	5e-17	1 x 50 keratin 24 [Source:HGNC Symbol;Acc:18527]
20	3851	-2.44	2e-16	5e-17	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-56.61	NULL	74 / 135	H.Tiss WIRTH_Mucosa
2	-27.76	NULL	8 / 19	BP peptide cross-linking
3	-27.26	NULL	14 / 21	CC cornified envelope
4	-25.55	NULL	19 / 53	BP keratinocyte differentiation
5	-25.14	NULL	16 / 42	BP keratinization
6	-17.78	NULL	5 / 10	GSEA C2KEGG_LINOLEIC_ACID_METABOLISM
7	-16.2	NULL	2 / 10	GSEA C2MURAKAMI_UV_RESPONSE_1HR_UP
8	-15.78	NULL	1 / 6	GSEA C2SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN
9	-14.2	NULL	3 / 12	BP cellular aldehyde metabolic process
10	-13.76	NULL	19 / 76	BP epidermis development
11	-13.69	NULL	2 / 11	GSEA C2MURAKAMI_UV_RESPONSE_6HR_DN
12	-12.95	NULL	13 / 186	MF structural molecule activity
13	-12.8	NULL	7 / 15	GSEA C2WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCE
14	-12.6	NULL	4 / 10	GSEA C2SMID_BREAST_CANCER_ERBB2_UP
15	-12.38	NULL	77 / 572	Disease GUDJ_poriasis_up
16	-12.26	NULL	6 / 16	GSEA C2CROMER_TUMORIGENESIS_DN
17	-11.99	NULL	3 / 14	GSEA C2CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_U
18	-11.49	NULL	5 / 21	CC desmosome
19	-11.18	NULL	1 / 8	GSEA C2LIU_CDX2_TARGETS_DN
20	-10.98	NULL	6 / 13	BP negative regulation of peptidase activity
21	-10.65	NULL	4 / 44	CC keratin filament
22	-10.33	NULL	3 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
23	-10.26	NULL	6 / 82	CC intermediate filament
24	-10.1	NULL	1 / 6	GSEA C2GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_DN
25	-10.09	NULL	5 / 16	GSEA C2LEE_LIVER_CANCER_MYC_TGFA_UP
26	-10.02	NULL	6 / 16	GSEA C2WANG_BARRETTS_ESOPHAGUS_DN
27	-9.83	NULL	5 / 15	GSEA C2RICKMAN_HEAD_AND_NECK_CANCER_E
28	-9.47	NULL	2 / 11	GSEA C2ROME_INSULIN_TARGETS_IN_MUSCLE_DN
29	-9.17	NULL	4 / 15	MF retinol dehydrogenase activity
30	-9.08	NULL	1 / 9	GSEA C2NIKOLSKY_BREAST_CANCER_17P11_AMPLICON
31	-8.81	NULL	3 / 14	GSEA C2KIM_RESPONSE_TO_TSA_AND_DECITABINE_UP
32	-8.8	NULL	2 / 8	TF Tissue/AQUERIZAS_Tongue
33	-8.68	NULL	4 / 39	BP retinoid metabolic process
34	-8.66	NULL	2 / 16	GSEA C2KOBAYASHI_EGFR_SIGNALING_24HR_UP
35	-8.39	NULL	3 / 11	GSEA C2REACTOME_XENOBIOTICS
36	-8	NULL	3 / 15	GSEA C2CHANG_IMMORTALIZED_BY_HPV31_DN
37	-8	NULL	2 / 13	MF RNA polymerase II transcription factor binding transcription factor
38	-7.91	NULL	1 / 9	GSEA C2REACTOME_ETHANOL_OXIDATION
39	-7.91	NULL	7 / 38	BP epithelial cell differentiation
40	-7.67	NULL	5 / 51	MF protein binding, bridging

p-values

