

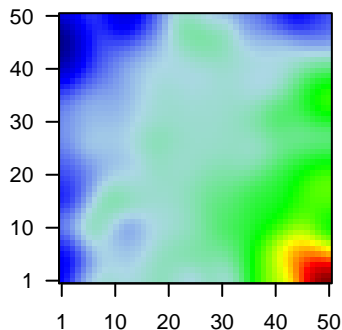
GW_046

Global Summary

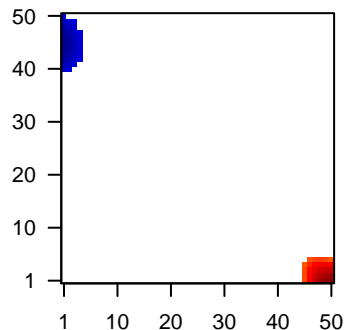
%DE = 0.15
 # genes with $fdr < 0.2$ = 1924 (1111 + / 813 -)
 # genes with $fdr < 0.1$ = 1560 (924 + / 636 -)
 # genes with $fdr < 0.05$ = 1229 (764 + / 465 -)
 # genes with $fdr < 0.01$ = 847 (545 + / 302 -)
 # genes in genesets = 16332

<FC> = 0
 <shrinkage-t> = 0
 <p-value> = 0.1
 <fdr> = 0.85

Profile



Regulated Spots



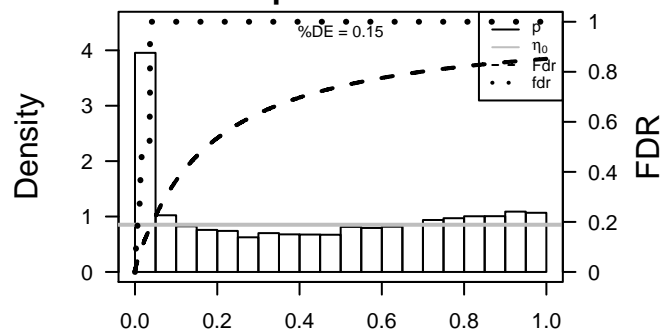
Global Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	9744	1.64	2e-16	4e-14	49 x 1 ArfGAP with coiled-coil, ankyrin repeat and PH domains 1 [S
2	54518	1.61	2e-16	4e-14	50 x 1 amyloid beta (A4) precursor protein-binding, family B, membr
3	347	2.17	2e-16	4e-14	50 x 7 apolipoprotein D [Source:HGNC Symbol;Acc:612]
4	55843	1.74	2e-16	4e-14	50 x 1 Rho GTPase activating protein 15 [Source:HGNC Symbol;Ac
5	9459	1.76	2e-16	4e-14	50 x 1 Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 [Sou
6	80162	1.79	2e-16	4e-14	43 x 1 ATH1, acid trehalase-like 1 (yeast) [Source:HGNC Symbol;A
7	730	1.85	2e-16	4e-14	49 x 7 complement component 7 [Source:HGNC Symbol;Acc:1346]
8	6363	3.3	2e-16	4e-14	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
9	6366	2.8	2e-16	4e-14	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc
10	1236	2.38	2e-16	4e-14	50 x 1 chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Ac
11	930	2.51	2e-16	4e-14	49 x 1 CD19 molecule [Source:HGNC Symbol;Acc:1633]
12	914	1.83	2e-16	4e-14	49 x 1 CD2 molecule [Source:HGNC Symbol;Acc:1639]
13	919	2.06	2e-16	4e-14	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
14	939	1.96	2e-16	4e-14	49 x 1 CD27 molecule [Source:HGNC Symbol;Acc:11922]
15	915	2.13	2e-16	4e-14	49 x 1 CD3d molecule, delta (CD3-TCR complex) [Source:HGNC S
16	962	2.46	2e-16	4e-14	50 x 1 CD48 molecule [Source:HGNC Symbol;Acc:1683]
17	1043	1.95	2e-16	4e-14	50 x 1 CD52 molecule [Source:HGNC Symbol;Acc:1804]
18	923	1.68	2e-16	4e-14	49 x 1 CD6 molecule [Source:HGNC Symbol;Acc:1691]
19	969	2.07	2e-16	4e-14	50 x 1 CD69 molecule [Source:HGNC Symbol;Acc:1694]
20	924	1.89	2e-16	4e-14	49 x 1 CD7 molecule [Source:HGNC Symbol;Acc:1695]

Global Geneset Analysis

Rank	GSZ	p-value	#all	Geneset
<i>Overexpressed</i>				
1	31.49	NULL	417	H.Tiss WIRTH_Immune system
2	15.87	NULL	553	Cancer Lembecke_Colonc Inflammation
3	10.98	NULL	312	BP immune response
4	10.83	NULL	60	BP T cell costimulation
5	10.49	NULL	84	BP T cell receptor signaling pathway
6	10.3	NULL	327	Lymphom SPANG_CD40 6hrs UP
7	10.2	NULL	11	GSEA C2BIOCARTA_THELPER_PATHWAY
8	10.19	NULL	28	BP B cell receptor signaling pathway
9	10.09	NULL	13	Cancer GENTLES_modul18
10	9.99	NULL	11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
11	9.87	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
12	9.82	NULL	162	CC external side of plasma membrane
13	9.62	NULL	9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
14	9.61	NULL	10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
15	9.54	NULL	74	BP regulation of immune response
16	9.29	NULL	16	GSEA C2SU_THYMUS
17	9.28	NULL	45	BP T cell activation
18	9.14	NULL	15	CC MHC class II protein complex
19	8.82	NULL	8	GSEA C2BIOCARTA_TCRA_PATHWAY
20	8.69	NULL	14	GSEA C2FINETTI_BREAST_CANCER_KINOME_GREEN
<i>Underexpressed</i>				
1	-17.59	NULL	572	Disease GUDJ_poriasis up
2	-15.24	NULL	135	H.Tiss WIRTH_Mucosa
3	-11.7	NULL	530	Cancer Lembecke_Normal vs Adenoma
4	-10.91	NULL	76	BP epidermis development
5	-10.42	NULL	142	Glio willscher_GBM_Verhaak-CL_expression_C_up
6	-10.42	NULL	142	Glio willscher_GBM_Verhaak-PNmut_expression_C_down
7	-7.7	NULL	21	CC cornified envelope
8	-7.4	NULL	1146	TF HEBENSTREIT_low expression TF
9	-7.37	NULL	53	BP keratinocyte differentiation
10	-7.09	NULL	242	BP extracellular matrix organization
11	-7.01	NULL	21	CC desmosome
12	-6.97	NULL	1253	BP small molecule metabolic process
13	-6.69	NULL	15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
14	-6.5	NULL	12	BP hemidesmosome assembly
15	-6.49	NULL	16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_4
16	-6.43	NULL	10	GSEA C2REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_P
17	-6.39	NULL	117	Glio GIEZELT_GBM_WT_up_VS_mut
18	-6.31	NULL	42	BP keratinization
19	-6.12	NULL	250	LymphomtENZ_Stromal signature 1
20	-5.9	NULL	15	GSEA C2AIGNER_ZEB1_TARGETS

p-values



GW_046

Local Summary

%DE = 0.89
 # metagenes = 29
 # genes = 409
 # genes in genesets = 405

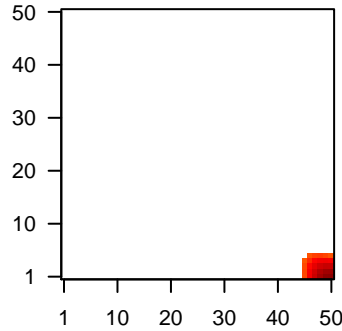
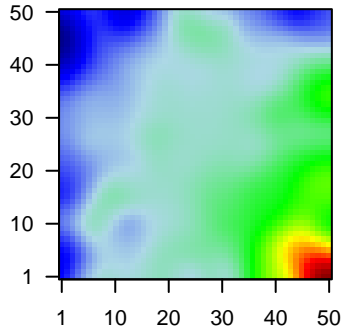
genes with $fdr < 0.1$ = 341 (337 + / 4 -)
 # genes with $fdr < 0.05$ = 332 (329 + / 3 -)
 # genes with $fdr < 0.01$ = 302 (301 + / 1 -)

<r> metagenes = 0.98
 <r> genes = 0.54

<FC> = 0.97
 <shrinkage-t> = 33.88
 <p-value> = 0
 <fdr> = 0.19

Profile

Spot



Local Genelist

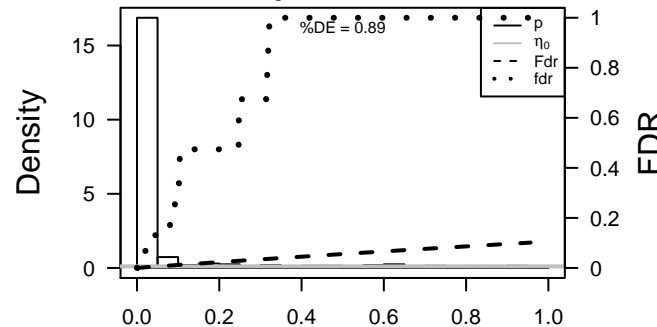
Rank	ID	log(FC)	fdr	p-value	Description
1	9744	1.64	2e-16	2e-16	49 x 1 ArfGAP with coiled-coil, ankyrin repeat and PH domains 1 [S
2	54518	1.61	2e-16	2e-16	50 x 1 amyloid beta (A4) precursor protein-binding, family B, membr
3	55843	1.74	2e-16	2e-16	50 x 1 Rho GTPase activating protein 15 [Source:HGNC Symbol;Acc
4	9459	1.76	2e-16	2e-16	50 x 1 Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 [Sou
5	6363	3.3	2e-16	2e-16	50 x 1 chemokine (C-C motif) ligand 19 [Source:HGNC Symbol;Acc
6	6366	2.8	2e-16	2e-16	50 x 2 chemokine (C-C motif) ligand 21 [Source:HGNC Symbol;Acc
7	1236	2.38	2e-16	2e-16	50 x 1 chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Ac
8	930	2.51	2e-16	2e-16	49 x 1 CD19 molecule [Source:HGNC Symbol;Acc:1633]
9	914	1.83	2e-16	2e-16	49 x 1 CD2 molecule [Source:HGNC Symbol;Acc:1639]
10	919	2.06	2e-16	2e-16	50 x 1 CD247 molecule [Source:HGNC Symbol;Acc:1677]
11	939	1.96	2e-16	2e-16	49 x 1 CD27 molecule [Source:HGNC Symbol;Acc:11922]
12	915	2.13	2e-16	2e-16	49 x 1 CD3d molecule, delta (CD3-TCR complex) [Source:HGNC S
13	962	2.46	2e-16	2e-16	50 x 1 CD48 molecule [Source:HGNC Symbol;Acc:1683]
14	1043	1.95	2e-16	2e-16	50 x 1 CD52 molecule [Source:HGNC Symbol;Acc:1804]
15	923	1.68	2e-16	2e-16	49 x 1 CD6 molecule [Source:HGNC Symbol;Acc:1691]
16	969	2.07	2e-16	2e-16	50 x 1 CD69 molecule [Source:HGNC Symbol;Acc:1694]
17	924	1.89	2e-16	2e-16	49 x 1 CD7 molecule [Source:HGNC Symbol;Acc:1695]
18	11151	1.85	2e-16	2e-16	50 x 1 coronin, actin binding protein, 1A [Source:HGNC Symbol;Acc
19	26999	1.8	2e-16	2e-16	49 x 1 cytoplasmic FMR1 interacting protein 2 [Source:HGNC Symb
20	55619	1.8	2e-16	2e-16	50 x 1 dedicator of cytokinesis 10 [Source:HGNC Symbol;Acc:2347

Local Geneset Analysis

Overexpression

Rank	GSZ	p-value	#in/all	Geneset
1	39.19	NULL	116 / 417	H.Tiss WIRTH_Immune system
2	32.62	NULL	126 / 553	Cancer Lembecke_Colonic Inflammation
3	21.95	NULL	9 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_1
4	21.5	NULL	8 / 11	GSEA C2BIOCARTA_THELPER_PATHWAY
5	21.04	NULL	8 / 11	GSEA C2BIOCARTA_TCYTOTOXIC_PATHWAY
6	20.78	NULL	70 / 312	BP immune response
7	20.65	NULL	13 / 15	CC MHC class II protein complex
8	19.11	NULL	9 / 13	Cancer GENTLES_modul18
9	18.48	NULL	21 / 60	BP T cell costimulation
10	18.34	NULL	7 / 15	GSEA C2FINAK_BREAST_CANCER_SDPD_SIGNATURE
11	17.89	NULL	6 / 8	Glio Donson-migration tethering and rolling-associated with LTS in HG
12	17.62	NULL	3 / 3	MMML C2CIEJ_MMML_7
13	17.09	NULL	9 / 14	GSEA C2BIOCARTA_NO2IL12_PATHWAY
14	17.05	NULL	5 / 12	BP dendritic cell chemotaxis
15	16.94	NULL	6 / 8	GSEA C2BIOCARTA_TGRA_PATHWAY
16	16.92	NULL	4 / 9	GSEA C2MILICIC_FAMILIAL_ADENOMATOUS_POLYPOSIS_DN
17	16.9	NULL	7 / 12	GSEA C2BIOCARTA_CTL_PATHWAY
18	16.29	NULL	12 / 28	BP B cell receptor signaling pathway
19	15.63	NULL	58 / 265	Glio willscher_GBM_Verhaak-CL_expression_B_up
20	15.63	NULL	58 / 265	Glio willscher_GBM_Verhaak-MES_expression_B_up
21	15.63	NULL	58 / 265	Glio willscher_GBM_Verhaak-PNwt_expression_B_down
22	15.63	NULL	58 / 265	Glio willscher_GBM_Verhaak-PNmut_expression_B_down
23	15.62	NULL	8 / 16	GSEA C2SU_THYMUS
24	15.44	NULL	5 / 17	BP positive regulation of neutrophil chemotaxis
25	15.34	NULL	7 / 13	GSEA C2BIOCARTA_IL17_PATHWAY
26	14.93	NULL	22 / 84	BP T cell receptor signaling pathway
27	14.84	NULL	11 / 28	LymphomAAVE_Immune response 1
28	14.83	NULL	5 / 10	GSEA C2LEE_DIFFERENTIATING_T_LYMPHOCYTE
29	14.66	NULL	31 / 162	CC external side of plasma membrane
30	14.64	NULL	5 / 8	GSEA C2BIOCARTA_TCAPOPTOSIS_PATHWAY
31	14.56	NULL	19 / 74	BP regulation of immune response
32	13.94	NULL	5 / 8	GSEA C2REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWE
33	13.19	NULL	7 / 15	GSEA C2BIOCARTA_TCR_PATHWAY
34	13.12	NULL	11 / 45	BP T cell activation
35	12.9	NULL	5 / 12	GSEA C2BIOCARTA_CTLA4_PATHWAY
36	12.9	NULL	6 / 10	GSEA C2FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_
37	12.88	NULL	5 / 10	GSEA C2LEE_EARLY_T_LYMPHOCYTE_DN
38	12.88	NULL	6 / 12	CC T cell receptor complex
39	12.72	NULL	17 / 47	BP antigen processing and presentation
40	12.61	NULL	8 / 14	GSEA C2FINETTI_BREAST_CANCER_KINOME_GREEN

p-values



GW_046

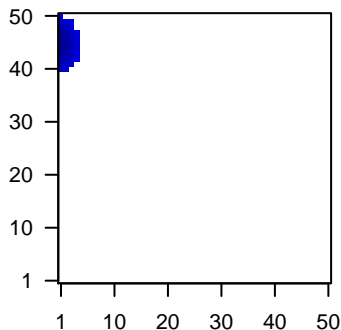
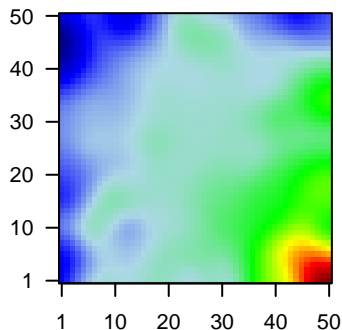
Local Summary

%DE = 0.87
 # metagenes = 36
 # genes = 439
 # genes in genesets = 429
 # genes with $fdr < 0.1$ = 342 (21 + / 321 -)
 # genes with $fdr < 0.05$ = 288 (17 + / 271 -)
 # genes with $fdr < 0.01$ = 269 (17 + / 252 -)

$\langle r \rangle$ metagenes = 0.87
 $\langle r \rangle$ genes = 0.33
 $\langle FC \rangle = -0.55$
 $\langle \text{shrinkage-t} \rangle = -19.37$
 $\langle p\text{-value} \rangle = 0$
 $\langle fdr \rangle = 0.37$

Profile

Spot



Local Genelist

Rank	ID	log(FC)	fdr	p-value	Description
1	1673	-1.98	2e-16	1e-15	1 x 49 defensin, beta 4B [Source:HGNC Symbol;Acc:30193]
2	3868	-2.04	2e-16	1e-15	1 x 46 keratin 16 [Source:HGNC Symbol;Acc:6423]
3	3851	2.38	2e-16	1e-15	1 x 50 keratin 4 [Source:HGNC Symbol;Acc:6441]
4	388533	-2.04	2e-16	1e-15	1 x 49 keratinocyte differentiation-associated protein [Source:HGNC
5	4014	1.74	2e-16	1e-15	2 x 48 loricrin [Source:HGNC Symbol;Acc:6663]
6	6278	-1.63	2e-16	1e-15	1 x 49 S100 calcium binding protein A7 [Source:HGNC Symbol;Acc:
7	338324	-1.73	2e-16	1e-15	1 x 48 S100 calcium binding protein A7A [Source:HGNC Symbol;Ac
8	6701	-1.62	2e-16	1e-15	1 x 49 small proline-rich protein 2B [Source:HGNC Symbol;Acc:112
9	6702	-1.78	2e-16	1e-15	1 x 50
10	6704	-1.95	2e-16	1e-15	1 x 50 small proline-rich protein 2E [Source:HGNC Symbol;Acc:112
11	6706	-1.82	2e-16	1e-15	1 x 48 small proline-rich protein 2G [Source:HGNC Symbol;Acc:112
12	6513	-1.56	1e-15	3e-14	1 x 43 solute carrier family 2 (facilitated glucose transporter), membr
13	653499	-1.56	1e-15	3e-14	1 x 47 lectin, galactoside-binding, soluble, 7 [Source:HGNC Symbol
14	9407	-1.55	2e-15	3e-14	1 x 50 transmembrane protease, serine 11D [Source:HGNC Symbol
15	56300	-1.54	2e-15	2e-13	1 x 47 interleukin 36, gamma [Source:HGNC Symbol;Acc:15741]
16	6705	-1.4	6e-15	5e-13	1 x 50 small proline-rich protein 2F [Source:HGNC Symbol;Acc:112
17	1824	-1.5	1e-14	7e-13	1 x 48 desmocollin 2 [Source:HGNC Symbol;Acc:3036]
18	1828	-1.48	3e-14	7e-13	1 x 48 desmoglein 1 [Source:HGNC Symbol;Acc:3048]
19	4118	1.47	4e-14	2e-12	1 x 50 mal, T-cell differentiation protein [Source:HGNC Symbol;Acc
20	84648	-1.45	1e-13	2e-12	1 x 48 late cornified envelope 3D [Source:HGNC Symbol;Acc:16615

Local Geneset Analysis

Underexpression

Rank	GSZ	p-value	#in/all	Geneset
1	-31.65	NULL	88 / 135	H.Tiss WIRTH_Mucosa
2	-26.74	NULL	135 / 572	Disease GUDJ_psooriasis up
3	-26.3	NULL	33 / 76	BP epidermis development
4	-21.84	NULL	18 / 21	CC cornified envelope
5	-20.85	NULL	13 / 21	CC desmosome
6	-18.69	NULL	27 / 53	BP keratinocyte differentiation
7	-16.77	NULL	11 / 16	GSEA C2HUPER_BREAST_BASAL_VS_LUMINAL_UP
8	-15	NULL	20 / 42	BP keratinization
9	-13.39	NULL	4 / 10	GSEA C2REACTOME_APOPTIC_CLEAVAGE_OF_CELL_ADHESION_P
10	-12.12	NULL	5 / 12	BP hemidesmosome assembly
11	-11.89	NULL	3 / 10	GSEA C2AUJLA_IL22_AND_IL17A_SIGNALING
12	-11.43	NULL	4 / 13	BP intermediate filament cytoskeleton organization
13	-11.3	NULL	7 / 15	GSEA C2AIGNER_ZEB1_TARGETS
14	-10.87	NULL	7 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATEL
15	-10.7	NULL	6 / 16	GSEA C2JAEGER_METASTASIS_DN
16	-10.3	NULL	4 / 12	GSEA C2REACTOME_GAP_JUNCTION_ASSEMBLY
17	-9.95	NULL	5 / 16	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_DN
18	-9.94	NULL	5 / 10	MF RAGE receptor binding
19	-9.58	NULL	25 / 82	CC intermediate filament
20	-9.49	NULL	4 / 13	GSEA C2REACTOME_GAP_JUNCTION_TRAFFICKING
21	-9.37	NULL	4 / 15	GSEA C2ZHANG_IMMORTALIZED_BY_HPV31_DN
22	-9.06	NULL	3 / 15	GSEA C2PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN
23	-9.06	NULL	4 / 15	CC connexon complex
24	-8.92	NULL	6 / 15	GSEA C2FARMER_BREAST_CANCER_CLUSTER_3
25	-8.61	NULL	5 / 25	BP response to zinc ion
26	-8.6	NULL	4 / 8	GSEA C2LIU_CDX2_TARGETS_DN
27	-8.59	NULL	6 / 16	GSEA C2FARMER_BREAST_CANCER_CLUSTER_4
28	-8.52	NULL	5 / 21	CC gap junction
29	-8.52	NULL	5 / 16	GSEA C2AMIT_SERUM_RESPONSE_480_MCF10A
30	-8.52	NULL	3 / 15	MF interleukin-1 receptor binding
31	-8.31	NULL	4 / 15	GSEA C2ONDER_CDH1_TARGETS_2_DN
32	-8.29	NULL	8 / 16	GSEA C2ONDER_CDH1_TARGETS_3_DN
33	-8.28	NULL	4 / 10	GSEA C2FOURNIER_ACINAR_DEVELOPMENT_LATE_UP
34	-8.08	NULL	6 / 16	GSEA C2SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN
35	-8.06	NULL	2 / 8	GSEA C2DORN_ADENOVIRUS_INFECTION_24HR_UP
36	-8.02	NULL	3 / 6	GSEA C2SMID_BREAST_CANCER_RELAPSE_IN_PLEURA_UP
37	-7.97	NULL	7 / 32	CC cell-cell adherens junction
38	-7.94	NULL	4 / 16	GSEA C2BECKER_TAMOXIFEN_RESISTANCE_DN
39	-7.91	NULL	7 / 16	GSEA C2COLDREN_GEFITINIB_RESISTANCE_DN
40	-7.89	NULL	5 / 15	GSEA C2RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN

p-values

