

a	L2L database list	P value
Chromatin-disrupting conditions		
	hdaci_colon_but24hrs_up	8.0e-07
	dac_fibro_up	1.0e-06
	idx_tsa_up_cluster1	6.6e-06
	hdaci_colon_but12hrs_up	9.5e-06
	hdaci_colon_tsa2hrs_up	1.2e-05
	tsa_hepatoma_up	8.1e-05
	hdaci_colon_but30min_dn	3.2e-04
	hdaci_colon_but48hrs_up	7.3e-04
	hdaci_colon_tsabut_up	1.2e-03
	idx_tsa_dn_cluster3	1.5e-03
	hdaci_colon_but_up	2.2e-03
	hdaci_colon_tsa_up	2.7e-03
	hdaci_three_up	4.1e-03
	tsadac_panc50_up	8.7e-03
	idx_tsa_dn_cluster1	9.1e-03
	hdaci_colon_but48hrs_dn	1.0e-02
	idx_tsa_dn_cluster2	1.4e-02
	hdaci_colon_but16hrs_up	1.4e-02
	tsadac_hypometh_ovca_up	1.8e-02
	idx_tsa_up_cluster3	1.0e-13
	idx_tsa_up_cluster1	7.1e-04
	ni2_lung_dn	8.6e-04
	dac_fibro_dn	1.0e-03
	hdaci_colon_but_dn	1.1e-03
	hdaci_colon_but48hrs_up	1.3e-03
	hdaci_colon_but_up	2.3e-03
	hdaci_colon_but24hrs_up	3.0e-03
	idx_tsa_up_cluster5	3.4e-03
	hdaci_colon_but30min_dn	5.4e-03
	hdaci_colon_tsa2hrs_up	7.6e-03
	dac_cgi_fibro_dn	1.0e-02
	tsa_panc50_up	1.0e-02
	tsa_cd4_up	1.2e-02
	hdaci_colon_tsabut_up	1.4e-02
	hdaci_colon_tsa24hrs_up	1.4e-02
	hdaci_colon_but48hrs_dn	1.6e-02
	hdaci_colon_but24hrs_dn	1.8e-02

d	L2L database list	P value
Interferon response		
	ifna_hcmv_6hrs_up	2.6e-07
	ifn_gamma_up	4.0e-07
	ifn_beta_up	8.8e-07
	ifnalpna_nl_hcc_up	3.0e-06
	ifnalpna_nl_up	6.0e-06
	ifn_any_up	7.0e-06
	ifnalpna_hcc_up	5.2e-05
	ifna_uv-cmv_common_hcmv_6hrs_up	6.7e-04
	ifn_alpha_up	1.1e-03
	ifn_all_up	3.6e-03
	nf90_up	1.7e-02
	nf90_dn	3.4e-03
	ifn_alpha_dn	1.2e-02
	ifn_beta_glioma_up	1.7e-02

b	L2L database list	P value
Oxidation agents		
	h2o2_csbrescued_up	8.5e-08
	as3_hek293_dn	1.5e-05
	bleo_human_lymph_high_24hrs_up	2.5e-04
	bleo_human_lymph_high_24hrs_dn	5.5e-04
	bleo_human_lymph_high_4hrs_up	1.3e-02
	bleo_human_lymph_high_4hrs_dn	1.2e-03
	bleo_mouse_lymph_low_24hrs_dn	4.2e-03
Alkylating agents		
	mms_human_lymph_high_24hrs_up	1.1e-04
	bcnu_glioma_mgmt_24hrs_dn	8.8e-04
	mms_mouse_lymph_high_4hrs_up	4.7e-10
	cis_resist_lung_up	1.4e-02
Ultraviolet light		
	uvc_high_all_dn	1.6e-04
	uvc_low_all_up	3.2e-04
	4nqo_unique_fibro_up	6.2e-04
	uvc_low_all_dn	1.8e-03
	uvb_nhek1_c1	2.7e-03
	uvb_nhek1_up	3.2e-03
	uvc_low_c3_dn	3.6e-03
	uvc_high_all_up	1.3e-02
	uvc_low_a2_up	1.3e-02
	uvb_scc_up	2.6e-08
	uvb_nhek1_up	2.0e-05
	uvb_nhek1_c2	2.5e-04
	uvb_nhek2_up	6.5e-04
	uvc_high_d4_dn	1.5e-03
	uvc_high_all_dn	1.7e-03
	uvb_nhek1_c6	2.2e-03
	uvc_low_all_up	3.0e-03
	uvb_nhek1_dn	3.3e-03
	uvc_high_all_up	8.7e-03
	uvc_high_b2_up	1.0e-02

e	L2L database list	P value
Normal ageing		
	ageing_brain_up	3.2e-06
	oldage_up	1.5e-04
	alzheimers_disease_dn	3.2e-04
	middleage_up	6.7e-04
	ageing_brain_dn	4.9e-03
	alzheimers_incipient_up	1.0e-02
	alzheimers_incipient_dn	1.3e-02
	alzheimers_disease_up	4.4e-08
	alzheimers_disease_dn	2.8e-07
	alzheimers_incipient_up	1.9e-06
	alzheimers_incipient_dn	4.5e-05
	oldage_dn	2.2e-04
	aged_mouse_cortex_up	2.4e-03
	middleage_up	1.0e-02

c	L2L database list	P value
Inflammatory response		
	emt_up	2.7e-07
	tgfbeta_all_up	1.2e-05
	tgfbeta_c3_up	1.8e-05
	tgfbeta_early_up	7.6e-05
	jnk_up	1.6e-03
	tnfalpha_4hrs_up	4.7e-03
	p53genes_all	9.7e-03
	emt_dn	9.8e-03
	tgfbeta_c1_up	1.3e-02
	p21_middle_dn	1.2e-06
	p21_all_dn	1.0e-04
	p21_p53_all_dn	5.6e-04
	p21_early_up	2.2e-03
	p21_all_up	5.0e-03
Anti-inflammatory effects		
	hdaci_colon_cur_up	1.3e-04
	hdaci_colon_sul_dn	4.0e-04
	hdaci_colon_sul24hrs_dn	6.5e-04
	hdaci_colon_cur12hrs_up	1.6e-03
	hdaci_colon_sul30min_dn	6.0e-03
	hdaci_colon_sul48hrs_dn	8.7e-03
	hdaci_colon_sul12hrs_up	9.6e-03
	hdaci_colon_cursul_up	1.8e-02
	hdaci_colon_sul16hrs_up	1.8e-02
	hdaci_colon_sul2hrs_up	3.4e-10
	hdaci_colon_cursul_up	2.8e-05
	hdaci_colon_cur_up	1.9e-04
	hdaci_colon_cur2hrs_up	6.7e-04
	hdaci_colon_sul12hrs_up	8.1e-04
	hdaci_colon_sul_up	9.7e-04
	hdaci_colon_cur12hrs_up	1.0e-03
	hdaci_colon_sul16hrs_up	1.9e-03
	hdaci_colon_sul48hrs_up	2.6e-03
	hdaci_colon_cur48hrs_up	1.6e-02
Hypoxic response		
	hypoxia_fibro_young_up	1.2e-06
	hypoxia_normal_up	3.5e-04
	hif1_targets	4.7e-04
	hypoxia_review	1.6e-03
	hypoxia_fibro_up	2.1e-03
	hypoxia_rcc_up	2.2e-03
	hypoxia_reg_up	1.0e-02
Growth and proliferation		
	dox_resist_gastric_up	4.2e-14
	brca_er_neg	1.3e-13
	brca_prognosis_neg	2.2e-08
	cancer_undifferentiated_meta_up	4.0e-08
	egf_hdmec_up	1.1e-04
	5fu_gastric_resist_up	5.5e-04
	vegf_huvec_2hrs_up	4.2e-04
	cancer_neoplastic_meta_up	1.0e-03
	vegf_hmmec_6hrs_up	1.7e-05
	vegf_hmmec_all_up	1.3e-03