

**Table S3.** Biocarta gene-set analysis of the GWAS meta-analysis of cocaine dependence

# MEAN\_SAMPLE\_SIZE = 6154  
 # TOTAL\_GENES = 18068  
 # ALPHA = 0.05  
 # FWER\_PERM = 10000  
 # FWER\_THRESH\_ALPHA = 0.000251509  
 # CONDITIONED\_INTERNAL = genesize, log\_genesize, genedensity, log\_genedensity, samplesize, log\_samplesize, inverse\_mac, log\_inverse\_mac

SET	NGENES	BETA	BETA_STD	SE	P	P_CORR	FULL_NAME
<b>BIOCARTA_TNFR2_PATHWAY</b>	<b>17</b>	<b>0.637</b>	<b>0.0195</b>	<b>0.195</b>	<b>0.00053872</b>	<b>0.0965</b>	<b>BIOCARTA_TNFR2_PATHWAY</b>
BIOCARTA_CD40_PATHWAY	13	0.507	0.0136	0.207	0.0070899	0.6568	BIOCARTA_CD40_PATHWAY
BIOCARTA_CYTOKINE_PATHWAY	21	0.44	0.015	0.182	0.0077664	0.6841	BIOCARTA_CYTOKINE_PATHWAY
BIOCARTA_CARDIACEGF_PA...	18	0.459	0.0145	0.192	0.0084954	0.7131	BIOCARTA_CARDIACEGF_PATHWAY
BIOCARTA_VITCB_PATHWAY	9	0.651	0.0145	0.318	0.020267	0.9333	BIOCARTA_VITCB_PATHWAY
BIOCARTA_CELLCYCLE_PAT...	23	0.334	0.0119	0.165	0.021578	0.9415	BIOCARTA_CELLCYCLE_PATHWAY
BIOCARTA_41BB_PATHWAY	17	0.359	0.011	0.181	0.023284	0.9528	BIOCARTA_41BB_PATHWAY
BIOCARTA_SKP2E2F_PATHWAY	10	0.508	0.0119	0.258	0.024373	0.9578	BIOCARTA_SKP2E2F_PATHWAY
BIOCARTA_NEUROTRANSMIT...	6	0.584	0.0106	0.306	0.028081	0.9731	BIOCARTA_NEUROTRANSMITTERS_PATHWAY
BIOCARTA_NFKB_PATHWAY	21	0.278	0.00946	0.157	0.038119	0.992	BIOCARTA_NFKB_PATHWAY
BIOCARTA KERATINOCYTE_...	46	0.212	0.0107	0.121	0.039618	0.9934	BIOCARTA KERATINOCYTE_PATHWAY
BIOCARTA_EPONFKB_PATHWAY	11	0.371	0.00916	0.225	0.049773	0.998	BIOCARTA_EPONFKB_PATHWAY
BIOCARTA_EPO_PATHWAY	18	0.261	0.00823	0.16	0.051579	0.9984	BIOCARTA_EPO_PATHWAY
BIOCARTA_RELA_PATHWAY	15	0.282	0.00811	0.174	0.052547	0.9987	BIOCARTA_RELA_PATHWAY
BIOCARTA_ACE2_PATHWAY	9	0.465	0.0104	0.288	0.05283	0.9987	BIOCARTA_ACE2_PATHWAY
BIOCARTA_VEGF_PATHWAY	27	0.228	0.0088	0.145	0.057763	0.9991	BIOCARTA_VEGF_PATHWAY
BIOCARTA_D4GDI_PATHWAY	13	0.378	0.0101	0.244	0.060967	0.9994	BIOCARTA_D4GDI_PATHWAY
BIOCARTA_AKT_PATHWAY	20	0.242	0.00806	0.162	0.067307	0.9997	BIOCARTA_AKT_PATHWAY
BIOCARTA_EGFR_SMRTE_PA...	11	0.401	0.00988	0.271	0.069518	0.9998	BIOCARTA_EGFR_SMRTE_PATHWAY
BIOCARTA_STRESS_PATHWAY	24	0.217	0.00789	0.147	0.069708	0.9998	BIOCARTA_STRESS_PATHWAY
BIOCARTA_NKCELLS_PATHWAY	20	0.274	0.0091	0.186	0.07092	0.9998	BIOCARTA_NKCELLS_PATHWAY
BIOCARTA_CACAM_PATHWAY	13	0.31	0.00832	0.218	0.077638	0.9999	BIOCARTA_CACAM_PATHWAY
BIOCARTA_P27_PATHWAY	13	0.269	0.0072	0.21	0.10057	1	BIOCARTA_P27_PATHWAY
BIOCARTA_INFLAM_PATHWAY	27	0.2	0.00771	0.156	0.10063	1	BIOCARTA_INFLAM_PATHWAY

BIOCARTA_TID_PATHWAY	19	0.214	0.00695	0.17	0.10399	1	BIOCARTA_TID_PATHWAY
BIOCARTA_NTHI_PATHWAY	24	0.19	0.00692	0.158	0.11441	1	BIOCARTA_NTHI_PATHWAY
BIOCARTA_AKAP13_PATHWAY	12	0.293	0.00756	0.247	0.11753	1	BIOCARTA_AKAP13_PATHWAY
BIOCARTA_PGC1A_PATHWAY	23	0.192	0.00683	0.166	0.12379	1	BIOCARTA_PGC1A_PATHWAY
BIOCARTA_EIF2_PATHWAY	10	0.256	0.00603	0.222	0.12441	1	BIOCARTA_EIF2_PATHWAY
BIOCARTA_MCM_PATHWAY	18	0.191	0.00604	0.169	0.12894	1	BIOCARTA_MCM_PATHWAY
BIOCARTA_RACCYCD_PATHWAY	25	0.158	0.00586	0.144	0.13748	1	BIOCARTA_RACCYCD_PATHWAY
BIOCARTA_TALL1_PATHWAY	15	0.212	0.0061	0.207	0.15358	1	BIOCARTA_TALL1_PATHWAY
BIOCARTA_HIF_PATHWAY	15	0.189	0.00544	0.185	0.15428	1	BIOCARTA_HIF_PATHWAY
BIOCARTA_AHSP_PATHWAY	9	0.209	0.00467	0.212	0.16209	1	BIOCARTA_AHSP_PATHWAY
BIOCARTA_IL1R_PATHWAY	32	0.126	0.00529	0.132	0.1696	1	BIOCARTA_IL1R_PATHWAY
BIOCARTA_P53_PATHWAY	16	0.187	0.00557	0.204	0.17951	1	BIOCARTA_P53_PATHWAY
BIOCARTA_TPO_PATHWAY	24	0.129	0.00471	0.147	0.18933	1	BIOCARTA_TPO_PATHWAY
BIOCARTA_ETS_PATHWAY	18	0.15	0.00474	0.181	0.20359	1	BIOCARTA_ETS_PATHWAY
BIOCARTA_TRKA_PATHWAY	12	0.151	0.00389	0.185	0.20797	1	BIOCARTA_TRKA_PATHWAY
BIOCARTA_CALCINEURIN_P...	18	0.148	0.00467	0.185	0.21169	1	BIOCARTA_CALCINEURIN_PATHWAY
BIOCARTA_PPARA_PATHWAY	56	0.0827	0.0046	0.105	0.21566	1	BIOCARTA_PPARA_PATHWAY
BIOCARTA_BCR_PATHWAY	32	0.1	0.00423	0.129	0.21773	1	BIOCARTA_BCR_PATHWAY
BIOCARTA_IL22BP_PATHWAY	16	0.179	0.00533	0.231	0.21859	1	BIOCARTA_IL22BP_PATHWAY
BIOCARTA_ARENRF2_PATHWAY	13	0.163	0.00438	0.214	0.22298	1	BIOCARTA_ARENRF2_PATHWAY
BIOCARTA_PTC1_PATHWAY	11	0.163	0.00403	0.217	0.22589	1	BIOCARTA_PTC1_PATHWAY
BIOCARTA_IL2RB_PATHWAY	37	0.0868	0.00392	0.121	0.23726	1	BIOCARTA_IL2RB_PATHWAY
BIOCARTA_PROTEASOME_PA...	26	0.105	0.00399	0.148	0.23872	1	BIOCARTA_PROTEASOME_PATHWAY
BIOCARTA_RAS_PATHWAY	21	0.109	0.00372	0.159	0.2462	1	BIOCARTA_RAS_PATHWAY
BIOCARTA_SET_PATHWAY	11	0.171	0.00422	0.252	0.24853	1	BIOCARTA_SET_PATHWAY
BIOCARTA_AKAP95_PATHWAY	12	0.155	0.004	0.235	0.25463	1	BIOCARTA_AKAP95_PATHWAY
BIOCARTA_IL2_PATHWAY	20	0.112	0.00372	0.171	0.25672	1	BIOCARTA_IL2_PATHWAY
BIOCARTA_TOLL_PATHWAY	33	0.0768	0.00328	0.118	0.25698	1	BIOCARTA_TOLL_PATHWAY
BIOCARTA_IL6_PATHWAY	21	0.105	0.00356	0.162	0.25865	1	BIOCARTA_IL6_PATHWAY
BIOCARTA_CDMAC_PATHWAY	16	0.128	0.0038	0.201	0.26213	1	BIOCARTA_CDMAC_PATHWAY
BIOCARTA_IL7_PATHWAY	16	0.121	0.00361	0.192	0.26348	1	BIOCARTA_IL7_PATHWAY
BIOCARTA_IL3_PATHWAY	14	0.121	0.00337	0.193	0.26479	1	BIOCARTA_IL3_PATHWAY
BIOCARTA_SHH_PATHWAY	16	0.133	0.00397	0.217	0.26966	1	BIOCARTA_SHH_PATHWAY

BIOCARTA_SRCRPTP_PATHWAY	11	0.114	0.00282	0.193	0.27667	1	BIOCARTA_SRCRPTP_PATHWAY
BIOCARTA_PYK2_PATHWAY	28	0.078	0.00307	0.136	0.28357	1	BIOCARTA_PYK2_PATHWAY
BIOCARTA_ERK5_PATHWAY	18	0.0892	0.00282	0.159	0.28739	1	BIOCARTA_ERK5_PATHWAY
BIOCARTA_PARKIN_PATHWAY	12	0.133	0.00344	0.239	0.28873	1	BIOCARTA_PARKIN_PATHWAY
BIOCARTA_MYOSIN_PATHWAY	29	0.0768	0.00307	0.139	0.29025	1	BIOCARTA_MYOSIN_PATHWAY
BIOCARTA_VIP_PATHWAY	26	0.084	0.00319	0.159	0.29856	1	BIOCARTA_VIP_PATHWAY
BIOCARTA_COMP_PATHWAY	18	0.103	0.00324	0.197	0.30101	1	BIOCARTA_COMP_PATHWAY
BIOCARTA_EGF_PATHWAY	30	0.0732	0.00298	0.142	0.30338	1	BIOCARTA_EGF_PATHWAY
BIOCARTA_STATHMIN_PATHWAY	19	0.0969	0.00314	0.193	0.30813	1	BIOCARTA_STATHMIN_PATHWAY
BIOCARTA_GH_PATHWAY	28	0.0679	0.00267	0.136	0.30833	1	BIOCARTA_GH_PATHWAY
BIOCARTA_PAR1_PATHWAY	35	0.064	0.00281	0.129	0.31055	1	BIOCARTA_PAR1_PATHWAY
BIOCARTA_STEM_PATHWAY	15	0.0862	0.00248	0.196	0.3297	1	BIOCARTA_STEM_PATHWAY
BIOCARTA_NGF_PATHWAY	17	0.0725	0.00222	0.171	0.33576	1	BIOCARTA_NGF_PATHWAY
BIOCARTA_CLASSIC_PATHWAY	13	0.0937	0.00251	0.223	0.33703	1	BIOCARTA_CLASSIC_PATHWAY
BIOCARTA_CCR5_PATHWAY	17	0.0778	0.00239	0.185	0.33705	1	BIOCARTA_CCR5_PATHWAY
BIOCARTA_NOS1_PATHWAY	21	0.0767	0.00261	0.185	0.33887	1	BIOCARTA_NOS1_PATHWAY
BIOCARTA_PTDINS_PATHWAY	22	0.0592	0.00206	0.144	0.34095	1	BIOCARTA_PTDINS_PATHWAY
BIOCARTA_ATM_PATHWAY	20	0.0766	0.00255	0.195	0.34714	1	BIOCARTA_ATM_PATHWAY
BIOCARTA_RANKL_PATHWAY	14	0.0771	0.00214	0.199	0.34916	1	BIOCARTA_RANKL_PATHWAY
BIOCARTA_FREE_PATHWAY	9	0.0919	0.00205	0.24	0.35124	1	BIOCARTA_FREE_PATHWAY
BIOCARTA_TCR_PATHWAY	45	0.0416	0.00207	0.112	0.35475	1	BIOCARTA_TCR_PATHWAY
BIOCARTA_PDGF_PATHWAY	30	0.052	0.00212	0.142	0.35724	1	BIOCARTA_PDGF_PATHWAY
BIOCARTA_G2_PATHWAY	24	0.0559	0.00204	0.159	0.36216	1	BIOCARTA_G2_PATHWAY
BIOCARTA_NDKDYNAMIN_PA...	18	0.0629	0.00198	0.179	0.36245	1	BIOCARTA_NDKDYNAMIN_PATHWAY
BIOCARTA_GATA3_PATHWAY	16	0.0752	0.00224	0.218	0.36478	1	BIOCARTA_GATA3_PATHWAY
BIOCARTA_ASBCCELL_PATHWAY	10	0.0847	0.00199	0.249	0.36666	1	BIOCARTA_ASBCCELL_PATHWAY
BIOCARTA_RB_PATHWAY	13	0.0693	0.00186	0.206	0.36835	1	BIOCARTA_RB_PATHWAY
BIOCARTA_IGF1MTOR_PATHWAY	19	0.0573	0.00186	0.172	0.3695	1	BIOCARTA_IGF1MTOR_PATHWAY
BIOCARTA_DC_PATHWAY	21	0.0575	0.00196	0.173	0.37004	1	BIOCARTA_DC_PATHWAY
BIOCARTA_AKAPCENTROSOM...	15	0.0651	0.00188	0.197	0.37035	1	BIOCARTA_AKAPCENTROSOME_PATHWAY
BIOCARTA_CARM1_PATHWAY	13	0.07	0.00188	0.212	0.37045	1	BIOCARTA_CARM1_PATHWAY
BIOCARTA_CERAMIDE_PATHWAY	21	0.0532	0.00181	0.161	0.37053	1	BIOCARTA_CERAMIDE_PATHWAY
BIOCARTA_BAD_PATHWAY	25	0.0456	0.0017	0.153	0.3825	1	BIOCARTA_BAD_PATHWAY

BIOCARTA_AGR_PATHWAY	34	0.0404	0.00175	0.14	0.38625	1	BIOCARTA_AGR_PATHWAY
BIOCARTA_BCELLSURVIVAL...	15	0.0484	0.00139	0.176	0.39134	1	BIOCARTA_BCELLSURVIVAL_PATHWAY
BIOCARTA_CELL2CELL_PAT...	14	0.0564	0.00157	0.212	0.39506	1	BIOCARTA_CELL2CELL_PATHWAY
BIOCARTA_ETC_PATHWAY	9	0.0622	0.00139	0.239	0.39723	1	BIOCARTA_ETC_PATHWAY
BIOCARTA_AT1R_PATHWAY	32	0.0332	0.0014	0.136	0.40396	1	BIOCARTA_AT1R_PATHWAY
BIOCARTA_CTCF_PATHWAY	23	0.0371	0.00132	0.162	0.40917	1	BIOCARTA_CTCF_PATHWAY
BIOCARTA_RANMS_PATHWAY	10	0.0693	0.00163	0.305	0.41022	1	BIOCARTA_RANMS_PATHWAY
BIOCARTA_LONGEVITY_PAT...	15	0.0396	0.00114	0.183	0.41425	1	BIOCARTA_LONGEVITY_PATHWAY
BIOCARTA_INSULIN_PATHWAY	21	0.0328	0.00112	0.164	0.42087	1	BIOCARTA_INSULIN_PATHWAY
BIOCARTA_G1_PATHWAY	28	0.0262	0.00103	0.149	0.43013	1	BIOCARTA_G1_PATHWAY
BIOCARTA_IL5_PATHWAY	9	0.0254	0.000567	0.27	0.46246	1	BIOCARTA_IL5_PATHWAY
BIOCARTA_MAPK_PATHWAY	84	0.00515	0.000351	0.0794	0.47412	1	BIOCARTA_MAPK_PATHWAY
BIOCARTA_LLECTIN_PATHWAY	12	0.00143	3.69E-05	0.225	0.49746	1	BIOCARTA_LLECTIN_PATHWAY
BIOCARTA_CREB_PATHWAY	27	-0.00696	-0.000269	0.146	0.51901	1	BIOCARTA_CREB_PATHWAY
BIOCARTA_PML_PATHWAY	17	-0.0122	-0.000375	0.173	0.52818	1	BIOCARTA_PML_PATHWAY
BIOCARTA_FCER1_PATHWAY	36	-0.01	-0.000447	0.125	0.53187	1	BIOCARTA_FCER1_PATHWAY
BIOCARTA_DEATH_PATHWAY	32	-0.013	-0.000545	0.136	0.53796	1	BIOCARTA_DEATH_PATHWAY
BIOCARTA_IGF1_PATHWAY	20	-0.016	-0.000533	0.166	0.53857	1	BIOCARTA_IGF1_PATHWAY
BIOCARTA_ARF_PATHWAY	17	-0.0177	-0.000542	0.181	0.5389	1	BIOCARTA_ARF_PATHWAY
BIOCARTA_CTL_PATHWAY	15	-0.0224	-0.000645	0.22	0.5405	1	BIOCARTA_CTL_PATHWAY
BIOCARTA_SARS_PATHWAY	10	-0.0313	-0.000737	0.247	0.55039	1	BIOCARTA_SARS_PATHWAY
BIOCARTA_ERYTH_PATHWAY	15	-0.0257	-0.00074	0.182	0.55596	1	BIOCARTA_ERYTH_PATHWAY
BIOCARTA_GLEEEVEC_PATHWAY	23	-0.0233	-0.000832	0.16	0.55779	1	BIOCARTA_GLEEEVEC_PATHWAY
BIOCARTA_CDC42RAC_PATHWAY	16	-0.0274	-0.000816	0.185	0.55891	1	BIOCARTA_CDC42RAC_PATHWAY
BIOCARTA_HCMV_PATHWAY	17	-0.0285	-0.000875	0.189	0.56018	1	BIOCARTA_HCMV_PATHWAY
BIOCARTA_CBL_PATHWAY	12	-0.039	-0.001	0.249	0.56212	1	BIOCARTA_CBL_PATHWAY
BIOCARTA_SPRY_PATHWAY	17	-0.0306	-0.000939	0.19	0.5642	1	BIOCARTA_SPRY_PATHWAY
BIOCARTA_SALMONELLA_PA...	13	-0.0397	-0.00107	0.205	0.57699	1	BIOCARTA_SALMONELLA_PATHWAY
BIOCARTA_FEEDER_PATHWAY	9	-0.0473	-0.00105	0.241	0.57766	1	BIOCARTA_FEEDER_PATHWAY
BIOCARTA_VDR_PATHWAY	12	-0.0475	-0.00122	0.241	0.57807	1	BIOCARTA_VDR_PATHWAY
BIOCARTA_DREAM_PATHWAY	14	-0.0459	-0.00128	0.219	0.58295	1	BIOCARTA_DREAM_PATHWAY
BIOCARTA_ACTINY_PATHWAY	19	-0.0392	-0.00127	0.186	0.58326	1	BIOCARTA_ACTINY_PATHWAY
BIOCARTA_ACH_PATHWAY	16	-0.0434	-0.00129	0.196	0.58768	1	BIOCARTA_ACH_PATHWAY

BIOCARTA_RARRXR_PATHWAY	15	-0.0409	-0.00118	0.183	0.5886	1	BIOCARTA_RARRXR_PATHWAY
BIOCARTA_MTOR_PATHWAY	23	-0.0322	-0.00115	0.142	0.59007	1	BIOCARTA_MTOR_PATHWAY
BIOCARTA_NKT_PATHWAY	27	-0.043	-0.00166	0.159	0.60632	1	BIOCARTA_NKT_PATHWAY
BIOCARTA_MITOCHONDRIA_...	19	-0.0494	-0.0016	0.17	0.61429	1	BIOCARTA_MITOCHONDRIA_PATHWAY
BIOCARTA_TH1TH2_PATHWAY	17	-0.0553	-0.0017	0.189	0.61538	1	BIOCARTA_TH1TH2_PATHWAY
BIOCARTA_CFTR_PATHWAY	12	-0.0734	-0.00189	0.242	0.61906	1	BIOCARTA_CFTR_PATHWAY
BIOCARTA_RNA_PATHWAY	10	-0.0714	-0.00168	0.23	0.62167	1	BIOCARTA_RNA_PATHWAY
BIOCARTA_CHEMICAL_PATHWAY	22	-0.0478	-0.00167	0.153	0.62227	1	BIOCARTA_CHEMICAL_PATHWAY
BIOCARTA_KREB_PATHWAY	8	-0.0969	-0.00204	0.296	0.62826	1	BIOCARTA_KREB_PATHWAY
BIOCARTA_P35ALZHEIMERS...	11	-0.079	-0.00195	0.239	0.62961	1	BIOCARTA_P35ALZHEIMERS_PATHWAY
BIOCARTA_IL4_PATHWAY	10	-0.0737	-0.00173	0.22	0.63124	1	BIOCARTA_IL4_PATHWAY
BIOCARTA_GABA_PATHWAY	9	-0.121	-0.0027	0.293	0.65991	1	BIOCARTA_GABA_PATHWAY
BIOCARTA_BARRESTIN_PAT...	10	-0.0879	-0.00207	0.212	0.66068	1	BIOCARTA_BARRESTIN_PATHWAY
BIOCARTA_EIF_PATHWAY	14	-0.0795	-0.00221	0.188	0.66349	1	BIOCARTA_EIF_PATHWAY
BIOCARTA_TCRA_PATHWAY	12	-0.101	-0.0026	0.233	0.66757	1	BIOCARTA_TCRA_PATHWAY
BIOCARTA_PTEN_PATHWAY	18	-0.0716	-0.00226	0.162	0.67069	1	BIOCARTA_PTEN_PATHWAY
BIOCARTA_MEF2D_PATHWAY	20	-0.0852	-0.00283	0.188	0.67525	1	BIOCARTA_MEF2D_PATHWAY
BIOCARTA_GCR_PATHWAY	19	-0.0844	-0.00273	0.174	0.68582	1	BIOCARTA_GCR_PATHWAY
BIOCARTA_NUCLEARRS_PAT...	14	-0.098	-0.00273	0.199	0.68876	1	BIOCARTA_NUCLEARRS_PATHWAY
BIOCARTA_CSK_PATHWAY	23	-0.0801	-0.00286	0.16	0.69183	1	BIOCARTA_CSK_PATHWAY
BIOCARTA_GLYCOLYSIS_PA...	9	-0.115	-0.00258	0.217	0.70279	1	BIOCARTA_GLYCOLYSIS_PATHWAY
BIOCARTA_EIF4_PATHWAY	24	-0.0788	-0.00287	0.146	0.70471	1	BIOCARTA_EIF4_PATHWAY
BIOCARTA_TCAPOPTOSIS_P...	11	-0.137	-0.00337	0.25	0.70773	1	BIOCARTA_TCAPOPTOSIS_PATHWAY
BIOCARTA_MET_PATHWAY	36	-0.0747	-0.00333	0.133	0.71208	1	BIOCARTA_MET_PATHWAY
BIOCARTA_PITX2_PATHWAY	14	-0.114	-0.00318	0.203	0.71337	1	BIOCARTA_PITX2_PATHWAY
BIOCARTA_INTRINSIC_PAT...	19	-0.103	-0.00335	0.183	0.71429	1	BIOCARTA_INTRINSIC_PATHWAY
BIOCARTA_NO1_PATHWAY	30	-0.0864	-0.00352	0.151	0.71655	1	BIOCARTA_NO1_PATHWAY
BIOCARTA_FAS_PATHWAY	30	-0.0848	-0.00345	0.144	0.72213	1	BIOCARTA_FAS_PATHWAY
BIOCARTA_PLATELETAPP_P...	11	-0.141	-0.00348	0.239	0.72259	1	BIOCARTA_PLATELETAPP_PATHWAY
BIOCARTA_BIOPEPTIDES_P...	41	-0.0703	-0.00334	0.117	0.72521	1	BIOCARTA_BIOPEPTIDES_PATHWAY
BIOCARTA_P38MAPK_PATHWAY	39	-0.0712	-0.0033	0.119	0.72599	1	BIOCARTA_P38MAPK_PATHWAY
BIOCARTA_LAIR_PATHWAY	17	-0.129	-0.00394	0.2	0.7399	1	BIOCARTA_LAIR_PATHWAY
BIOCARTA_SODD_PATHWAY	10	-0.159	-0.00374	0.241	0.74483	1	BIOCARTA_SODD_PATHWAY

BIOCARTA_LEPTIN_PATHWAY	11	-0.152	-0.00376	0.231	0.74577	1	BIOCARTA_LEPTIN_PATHWAY
BIOCARTA_FIBRINOLYSIS_...	12	-0.149	-0.00384	0.221	0.74958	1	BIOCARTA_FIBRINOLYSIS_PATHWAY
BIOCARTA_IL17_PATHWAY	17	-0.141	-0.00432	0.204	0.75489	1	BIOCARTA_IL17_PATHWAY
BIOCARTA_CHREBP2_PATHWAY	41	-0.0819	-0.00389	0.115	0.76119	1	BIOCARTA_CHREBP2_PATHWAY
BIOCARTA_EDG1_PATHWAY	26	-0.105	-0.004	0.148	0.76233	1	BIOCARTA_EDG1_PATHWAY
BIOCARTA_LYM_PATHWAY	11	-0.203	-0.005	0.271	0.77259	1	BIOCARTA_LYM_PATHWAY
BIOCARTA_GPCR_PATHWAY	32	-0.108	-0.00452	0.135	0.78748	1	BIOCARTA_GPCR_PATHWAY
BIOCARTA_IGF1R_PATHWAY	23	-0.123	-0.0044	0.152	0.79088	1	BIOCARTA_IGF1R_PATHWAY
BIOCARTA_HSP27_PATHWAY	15	-0.159	-0.00459	0.196	0.79242	1	BIOCARTA_HSP27_PATHWAY
BIOCARTA_TEL_PATHWAY	18	-0.154	-0.00487	0.187	0.79563	1	BIOCARTA_TEL_PATHWAY
BIOCARTA_CTLA4_PATHWAY	20	-0.151	-0.00501	0.181	0.79694	1	BIOCARTA_CTLA4_PATHWAY
BIOCARTA_UCALPAIN_PATHWAY	18	-0.149	-0.0047	0.176	0.80073	1	BIOCARTA_UCALPAIN_PATHWAY
BIOCARTA_AGPCR_PATHWAY	13	-0.185	-0.00495	0.213	0.80659	1	BIOCARTA_AGPCR_PATHWAY
BIOCARTA_IL12_PATHWAY	22	-0.158	-0.0055	0.177	0.81332	1	BIOCARTA_IL12_PATHWAY
BIOCARTA_MPR_PATHWAY	34	-0.119	-0.00517	0.133	0.81594	1	BIOCARTA_MPR_PATHWAY
BIOCARTA_CASPASE_PATHWAY	22	-0.145	-0.00507	0.16	0.81815	1	BIOCARTA_CASPASE_PATHWAY
BIOCARTA_RAB_PATHWAY	11	-0.224	-0.00552	0.246	0.81819	1	BIOCARTA_RAB_PATHWAY
BIOCARTA_RHO_PATHWAY	29	-0.131	-0.00524	0.143	0.81907	1	BIOCARTA_RHO_PATHWAY
BIOCARTA_ATRBRCA_PATHWAY	21	-0.166	-0.00564	0.175	0.82728	1	BIOCARTA_ATRBRCA_PATHWAY
BIOCARTA_CK1_PATHWAY	17	-0.182	-0.00559	0.193	0.82815	1	BIOCARTA_CK1_PATHWAY
BIOCARTA_CXCR4_PATHWAY	24	-0.15	-0.00548	0.151	0.83983	1	BIOCARTA_CXCR4_PATHWAY
BIOCARTA_IL10_PATHWAY	17	-0.218	-0.00669	0.216	0.84424	1	BIOCARTA_IL10_PATHWAY
BIOCARTA_MCALPAIN_PATHWAY	24	-0.162	-0.00589	0.159	0.84552	1	BIOCARTA_MCALPAIN_PATHWAY
BIOCARTA_PS1_PATHWAY	13	-0.244	-0.00654	0.221	0.86474	1	BIOCARTA_PS1_PATHWAY
BIOCARTA_GSK3_PATHWAY	25	-0.161	-0.00598	0.143	0.86968	1	BIOCARTA_GSK3_PATHWAY
BIOCARTA_TOB1_PATHWAY	21	-0.201	-0.00685	0.177	0.87215	1	BIOCARTA_TOB1_PATHWAY
BIOCARTA_TCYTOTOXIC_PA...	14	-0.262	-0.00728	0.226	0.87605	1	BIOCARTA_TCYTOTOXIC_PATHWAY
BIOCARTA_ALK_PATHWAY	36	-0.154	-0.00685	0.133	0.87654	1	BIOCARTA_ALK_PATHWAY
BIOCARTA_TFF_PATHWAY	21	-0.191	-0.0065	0.162	0.88102	1	BIOCARTA_TFF_PATHWAY
BIOCARTA_PLCE_PATHWAY	12	-0.307	-0.0079	0.258	0.88299	1	BIOCARTA_PLCE_PATHWAY
BIOCARTA_AMI_PATHWAY	18	-0.232	-0.00731	0.184	0.89621	1	BIOCARTA_AMI_PATHWAY
BIOCARTA_HER2_PATHWAY	22	-0.205	-0.00714	0.155	0.90601	1	BIOCARTA_HER2_PATHWAY
BIOCARTA_DNAFRAGMENT_P...	10	-0.335	-0.00788	0.252	0.90813	1	BIOCARTA_DNAFRAGMENT_PATHWAY

BIOCARTA_EXTRINSIC_PATHWAY	13	-0.282	-0.00755	0.21	0.90988	1	BIOCARTA_EXTRINSIC_PATHWAY
BIOCARTA_THELPER_PATHWAY	14	-0.311	-0.00865	0.227	0.9149	1	BIOCARTA_THELPER_PATHWAY
BIOCARTA_INTEGRIN_PATHWAY	38	-0.166	-0.0076	0.121	0.91523	1	BIOCARTA_INTEGRIN_PATHWAY
BIOCARTA_HIVNEF_PATHWAY	55	-0.15	-0.00828	0.107	0.91986	1	BIOCARTA_HIVNEF_PATHWAY
BIOCARTA_MAL_PATHWAY	19	-0.217	-0.00702	0.154	0.92058	1	BIOCARTA_MAL_PATHWAY
BIOCARTA_NFAT_PATHWAY	53	-0.153	-0.00825	0.107	0.92292	1	BIOCARTA_NFAT_PATHWAY
BIOCARTA_BARR_MAPK_PATHWAY	12	-0.312	-0.00804	0.216	0.92572	1	BIOCARTA_BARR_MAPK_PATHWAY
BIOCARTA_RAC1_PATHWAY	23	-0.24	-0.00855	0.159	0.93405	1	BIOCARTA_RAC1_PATHWAY
BIOCARTA_TNFR1_PATHWAY	29	-0.22	-0.00882	0.146	0.93469	1	BIOCARTA_TNFR1_PATHWAY
BIOCARTA_HDAC_PATHWAY	29	-0.24	-0.00959	0.156	0.93721	1	BIOCARTA_HDAC_PATHWAY
BIOCARTA_FMPL_PATHWAY	34	-0.206	-0.00894	0.132	0.94036	1	BIOCARTA_FMPL_PATHWAY
BIOCARTA_NO2IL12_PATHWAY	16	-0.311	-0.00924	0.196	0.9434	1	BIOCARTA_NO2IL12_PATHWAY
BIOCARTA_TGFB_PATHWAY	19	-0.285	-0.00922	0.178	0.94488	1	BIOCARTA_TGFB_PATHWAY
BIOCARTA_GRANULOCYTES_PATHWAY	14	-0.356	-0.0099	0.22	0.94734	1	BIOCARTA_GRANULOCYTES_PATHWAY
BIOCARTA_P53HYPOXIA_PATHWAY	21	-0.249	-0.00848	0.153	0.948	1	BIOCARTA_P53HYPOXIA_PATHWAY
BIOCARTA_EPHA4_PATHWAY	9	-0.474	-0.0106	0.281	0.95427	1	BIOCARTA_EPHA4_PATHWAY
BIOCARTA_CDK5_PATHWAY	11	-0.398	-0.00983	0.235	0.95481	1	BIOCARTA_CDK5_PATHWAY
BIOCARTA_BLYMPHOCYTE_PATHWAY	10	-0.48	-0.0113	0.278	0.95808	1	BIOCARTA_BLYMPHOCYTE_PATHWAY
BIOCARTA_ERK_PATHWAY	27	-0.26	-0.01	0.145	0.9633	1	BIOCARTA_ERK_PATHWAY
BIOCARTA_BARRESTIN_SRC_PATHWAY	15	-0.354	-0.0102	0.198	0.96334	1	BIOCARTA_BARRESTIN_SRC_PATHWAY
BIOCARTA_CARM_ER_PATHWAY	31	-0.226	-0.00937	0.119	0.97103	1	BIOCARTA_CARM_ER_PATHWAY
BIOCARTA_MTA3_PATHWAY	18	-0.412	-0.013	0.214	0.9732	1	BIOCARTA_MTA3_PATHWAY
BIOCARTA_MONOCYTE_PATHWAY	11	-0.53	-0.0131	0.266	0.97676	1	BIOCARTA_MONOCYTE_PATHWAY
BIOCARTA_CCR3_PATHWAY	22	-0.343	-0.012	0.172	0.97704	1	BIOCARTA_CCR3_PATHWAY
BIOCARTA_ECM_PATHWAY	24	-0.301	-0.011	0.148	0.97932	1	BIOCARTA_ECM_PATHWAY
BIOCARTA_WNT_PATHWAY	25	-0.338	-0.0126	0.156	0.98463	1	BIOCARTA_WNT_PATHWAY
BIOCARTA_ARAP_PATHWAY	17	-0.433	-0.0133	0.174	0.99363	1	BIOCARTA_ARAP_PATHWAY
BIOCARTA_SPPA_PATHWAY	22	-0.423	-0.0148	0.168	0.99413	1	BIOCARTA_SPPA_PATHWAY