

Table S1: Pathway analysis of PARK2 interacting protein with Cytokines studied by us in Indian population groups

PARK2-interacting proteins	Uniport_ID of PARK2 interacting proteins	PATHWAYS involving PARK2 interacting proteins and Cytokine genes	Cytokine genes	Databases used for Pathways retrieval
CUL1	Q13616	Adherens junction	TGFR2	KEGG
VINC	P18206	Adherens junction	TGFR2	KEGG
CUL1	Q13616	Amyotrophic lateral sclerosis (ALS)	TNF	KEGG
NMDE2	Q13224	Amyotrophic lateral sclerosis (ALS)	TNF	KEGG
CUL1	Q13616	Angiopoietin receptor Tie2-mediated signaling	TNF	Nci-Nature
CASP8	Q14790	Apoptosis	TNF	KEGG
CASP8	Q14790	caspase cascade in apoptosis	TNF	BioCarta
CASP8	Q14790	Caspase cascade in apoptosis	TNF	Nci-Nature
CASP1	P29466	caspase cascade in apoptosis	TNF	BioCarta
CASP1	P29466	Caspase cascade in apoptosis	TNF	Nci-Nature
CASP1	P29466	Cellular roles of Anthrax toxin	TNF	Nci-Nature
CASP8	Q14790	ceramide signaling pathway	TNF	BioCarta
CASP8	Q14790	Ceramide signaling pathway	TNF	Nci-Nature
CASP8	Q14790	Chagas disease	IL10, TGFR2, TNF	KEGG
CUL1	Q13616	Fc epsilon RI signaling pathway	TNF	KEGG
CASP8	Q14790	hiv-1 nef: negative effector of fas and tnf	TNF	BioCarta
CASP8	Q14790	HIV-1 Nef: Negative effector of Fas and TNF-alpha	TNF	Nci-Nature
CUL1	Q13616	IL6-mediated signaling events	IL6	Nci-Nature
CUL1	Q13616	Integrins in angiogenesis	TGFR2	Nci-Nature
CASP8	Q14790	Integrins in angiogenesis	TGFR2	Nci-Nature
VINC	P18206	Integrins in angiogenesis	TGFR2	Nci-Nature
CUL1	Q13616	LPA receptor mediated events	IL6	Nci-Nature

CUL1	Q13616	MAPK signaling pathway	TGFR2, TNF	KEGG
CUL1	Q13616	Natural killer cell mediated cytotoxicity	TNF	KEGG
RBP2	P49792	Signaling events mediated by HDAC Class I	TNF	Nci-Nature
CSKP	O14936	Syndecan-1-mediated signaling events	TGFR2	Nci-Nature
KCC2A	Q9UQM7	TGF-beta receptor signaling	TGFR2	Nci-Nature
CUL1	Q13616	TGF-beta signaling pathway	TGFR2, TNF	KEGG
CASP8	Q14790	TNF receptor signaling pathway	TNF	Nci-Nature
CASP8	Q14790	TNF signaling	TNF	Reactome
CASP8	Q14790	tnfr1 signaling pathway	TNF	BioCarta
CUL1	Q13616	Toll-like receptor signaling pathway	IL6, TNF, IL12B	KEGG
CASP8	Q14790	Toll-like receptor signaling pathway	IL6, TNF, IL12B	KEGG