

Figure S1 52 chemical components of *Rbodiola*.

Table S1 The targets of the *Rhodiola's* chemical constituents and acetazolamide

ID	Name	Targets
1	Geraniol	ESR1 ALOX15 ESR1 ABC02 ACACA ACHE ACTA2 ACTL6A ACVR1 ADIPOQ AFF4 AGER AHCTF1 AKR1C1 AP521 APBB2 APPL1 ARNLT ATF3 ATF4 ATF6 ATG12 ATG5 ATG7 BAK1 BAX BAZ1B BAZ2B BBX BCL11A BCL2 BCL2L1 BCL2L2 BCL6 BCLAF1 BDNF BIRC5 BMP6 BNIP3 BRCA1 BRCA2 BTF3 BUB1 BUB1B CASP3 CASP8 CASP9 CAT CBAF2T2 CBFB CCL4 CCNA2 CCNB1 CCND1 CD86 CDC20 CDC25A CDC25C CDC45 CDC7 CDH1 CDK1 CDK2 CDK4 CDKN1A CDKN1B CDKN2C CDKN3 CDT1 CEBPB CEBPG CENPE CENPF CHEK1 CIT CNBP CNGA2 COL1A1 COX7C CREB3 CREB3L2 CRP CTNNB1 CTSD CXCL8 CYB5A CYBB CYC1 CYP1A1 CYP1B1 CYP2B6 CYP2E1 CYP3A5 DBF4 DDDT3 DEK DMTF1 DNAJC1 DR1 DTYMK E2F1 E2F8 EHF EIF2AK3 EIF2S1 ELAVL2 ELF1 ELK4 ERC1 ERN1 ESPL1 ESR1 ESR2 ETS2 ETV1 EWSR1 EZH2 FABP4 FADS1 FANCG FASN FBXO5 FOS FOSL1 FOSL2 FOXA2 FOXJ3 FOXM1 FOXO4 FST FUBP1 G6PD GABRA1 GABRB1 GATAD1 GBX2 GCG GDNF GMNN GNA15 GNAL GOBP2 GPX1 GSK3B GSR GSTP1 GTF2B GTF2H1 GTF2IRD1 GTF3A GTF3C1 HAVCR1 HBB HBP1 HIVEP1 HLF HMBOX1 HMG20B HMGB2 HMGB3 HMGC R HMGXB3 HMGXB4 HMOX1 HNRNPAB HOXA5 HOXB13 HOXC6 HRAS HSPA2 HSTRPA HTR3A ICAM1 ID1 ID3 IFNG IL10 IL16 IL17A IL18 IL1A IL1B IL1R2 IL6 IL7R ILF2 INS1 IRF1 IRF6 IRF7 IRF9 JARID2 JMJD1C JUN JUNB JUND KDR KHDRBS1 KIF11 KIF15 KIF22 KIF23 KIF2C KLF11 KLF13 KLF3 KLF4 KLF5 KLF6 KLF7 KNTC1 KRAS KRBOX4 LCAT LDLR LIF LPL LZTFL1 LZTR1 MAD2L1 MAFF MAFG MAOA MAOB MAP2K1 MAPK1 MAPK3 MCM2 MEF2A MEN1 MKI67 MMP3 MNT MPO MTOR MVK MXD1 MXD4 MX1 MYB MYBL1 MYBL2 MYO6 NASP NCAPH NCOR1 NDP NEK2 NFAT5 NFE2L1 NFE2L2 NFIL3 NFKB1 NFKBIA NFYB NOS2 NOX1 NPM1 NQO1 NR1D1 NR1D2 NR2F1 NR3C1 NR4A2 NSD2 NUSAP1 ODC1 OGG1 OLFRAF3 OR1A1 OR1G1 PA2G4 PBX1 PCNA PGR PHB PHF1 PHF21A PHTF1 PIK3R1 PKMYT1 PLAGL1 PLK1 POLA1 POLE POLR1G POR PPARA PPARG PRC1 PRDM4 PRDX3 PRKAA1 PTEN PTGS2 PTTG1 PWP1 RACGAP1 RAD51 RAD54B RAD54L RAF1 RCAN1 RCOR3 RELB RFX5 RNF19A RUVBL1 RUVBL2 SATB1 SERPINB3 SIM2 SIRT1 SKP2 SLC18A2 SLC2A4RG SLC6A3 SMAD3 SMAD6 SMAD7 SMARCA2 SMARCAL1 SMC4 SNCA SOD1 SOD2 SOX9 SP100 SP140L SQSTM1 SREBF1 SREBF2 STAT1 STAT2 STAT6 STMN1 SUB1 SUPT16H SUPT5H TARDBP TCEAL1 TCF12 TCF25 TCF4 TCF7L2 TERF1 TFAP2A TFCP2 TFDP1 TGFBI TGIF1 TH TIMELESS TK1 TLE1 TLR4 TNF TP53 TPX2 TRAI P TRAK1 TRIM29 TRPS1 TRPV1 TSC22D3 TTK TULP3 TULP4 TYMS UBE2C UBE2N UBP1 UCP2 VCAM1 VEGFA VLDLR XBP1 ZBTB1 ZBTB10 ZBTB11 ZBTB20 ZHX2 ZMIZ1 ZMYM4 ZMYND11 ZNF134 ZNF165 ZNF189 ZNF195 ZNF207 ZNF211 ZNF224 ZNF23 ZNF248 ZNF263 ZNF264 ZNF274 ZNF281 ZNF304 ZNF329 ZNF331 ZNF334 ZNF354A ZNF394 ZNF410 ZNF44 ZNF467 ZNF468 ZNF557 ZNF571 ZNF589 ZNF606 ZNF611 ZNF75D ZNF768 ZNF84 ZSCAN16 ZSCAN18 ZSCAN31 ZSCAN5A ZZZ3 ABL2 AF1548 Acox1 Anxa5 DHRS1 EIF2B1 ERBB2 HB1 L2 MAGI2
2	Rosiridol	ABL2 ALOX12 Acox1 BRD7 DHRS1 ECH1 EIF2B1 ERBB2 Ets1 HB1
3	Rosiridin	ACR ALOX12 AVD CSDE1 CUL5 Cdc3e DNMT1 EXOSC9 FES Flot2
4	Rhodiolosid B	ACR ALOX12 Anxa5 CELF4 CPSF3 CSDE1 DNMT1 EIF2S1 Flot2 Fnta
5	Rhodiolosid C	ACR ALOX12 Anxa5 CDC13 CELF4 CSDE1 ESA1 Fah Flot2 GBP1
6	Rhodiolosid A	ALOX12 Anxa5 CHI1 CSDE1 CUL5 DNMT1 EIL3 Flot2 Irf1 MT-CYB
7	Rhodiolosid D	CC0490 CPA4 CSDE1 ECE2 EEF1AKMT4 EEF1AKMT4-ECE2 Ets1 GOT2 NUCB1 PES1
8	Rhodiolosid EI	ACS2 ALG13 Acox1 Anxa5 BCKDHA CSNK1G1 CTNNB1 DNMT1 GRK2 HHEX
9	Rhodiocyanoside A	ACAD8 ACO1 Anxa5 At1g07440 At1g07450 BMEI1586 CPSF3 ERBB2 FLNB HAO1
10	Lotaustralin	ACBD6 ACO1 ARO7 Anxa5 At1g07440 At1g07450 CPSF3 CUL5 KIFC3 Kik1b4
11	Tyrosol	CA5B hlyB CA5A CA2 ACS-2 AJM-1 AQP-2 B0024.4 B0228.6 BATH-10 C05B5.4 C06B8.7 C07D10.5 C08F1.10 C16H3.3 C17F4.7 C33D9.5 C33D9.6 C35E7.5 C39B5.2 C40A11.4 C49G7.12 CAV-1 CDC-14 CED-11 CEH-20 CEH-32 CEH-43 CEH-5 CES-2 CFZ-2 CHT-1 Ck1-1 CLEC-196 CLEC-266 CLEC-60 CPG-20 CPG-24 CUL1-16 CUL2-20 CUL2-24 CUL2-29 CUL2-9 DLG-1 DPY-14 DSH-1 EEED8.15 EFL-3 EYA-1 F13E9.11 F20C5.6 F27C1.1 F35D2.3 F36H5.4 F36H5.8 F39E9.7 F40G9.5 F49E12.10 F53B3.5 F53C3.3 F55C9.3 F55C9.5 F57G12.1 F58A6.9 FBXB-101 FBXB-102 FBXB-66 FBXB-88 FBXC-40 FKH-8 FLP-15 FMI-1 G6PC1 G6PD GADR-3 GSP-3 HAM-1 HCH-1 HIL-7 HIS-24 HMG-6 IGCN-1 IGCN-3 IGCN-4 INS1 INS-2 IRG-2 K01A2.3 K05C4.9 K06A5.2 KLP-11 LAM-1 LAM-3 LPR-3 LTD-1 MLS-2 MLT-11 MNP-1 MPS-2 MSD-2 MSD-4 MSP-142 MSP-152 MSP-19 MSP-3 MSP-31 MSP-33 MSP-36 MSP-38 MSP-40 MSP-45 MSP-49 MSP-50 MSP-53 MSP-55 MSP-56 MSP-59 MSP-64 MSP-65 MSP-74 MSP-76 MSP-77 MSP-78 MSP-81 MSP-2 NCAM-1 NCX-3 NHR-11 NOAH-1 NOAH-2 NSPD-2 NSPD-4 ODC-1 PTGS2 PTP-4 PTR-22 RIG-5 RSF-1 SKR-21 SOX-2 SPTF-1 SQST-1 SQT-3 SSP-16 SSQ-3 T02E9.5 T09B4.5 T14B4.19 T28B8.1 T28B6.3 TBB-4 TIR-1 TLN-1 UNC-129 UNC-39 UNC-44 W03G11.4 W04A8.4 W05H12.2 WDFY-3 WRT-10 Y106G6G.4 Y110A2AL.4 Y11D7A.3 Y41D4A.3 Y43F8B.2 Y58A7A.4 Y58A7A.5 Y59H11AM.1 Y82E9BR.17 ZIG-4 ZIP-8 ZK512.1 Cg3 ETR1 Ech1 GOT2 MAP2K2 MT-CYB NCBP1 SEC13 SENP7 SPEN
12	3-(4-Methoxyphenyl)-2-propen-1-ol	ACR AOC3 CDH-1 CDH-2 DDX50 EPN1 ERBB2 FBP1 GLR1 HDAC6
13	Caffeic acid	MMP9 MMP2 MMP1 CA2 GLS CA1 PTPN1 DPP4 CA7 CA5A CA6 CA9 GAA ALOX5 CA14 CA12 CA5B CA3 CA4 HDAC1 HDAC3 HDAC9 HDAC11 HDAC10 HDAC8 HDAC7 HDAC2 HDAC6 HDAC4 HDAC5 APP AKR1B1 ESR2 HSP90AB1 HSP90AA1 MCL1 GAPDH ALPL MPI GFER AKR1B10 NTMT1 ACACA ACHE ACLY ALOX15 ALOX5 ALPI ALT APP ARG1 ATP6V0D2 CASP3 CAT CCL2 CCL3 CCL4 COR1 COR2 CCR4 CD4 CD68 CDC20 CDK2 CHAT COMT COX2 CRH CTF1 CTSB CTSD CXCL2 CXCL8 CYP2E1 DAP DNAJB11 DPYSL4 EDN1 EGR1 ELMO2 ERF F3 FASN FLRT2 FLT4 G6PD GADD45A GLB1 GLS GOT1 GPT GSR GSTM1 GSTM2 GSTP1 GUSB H6PD HAVCR2 HES1 HLCS HMGC R HSP90B1 HSP61 IFNG IL10 IL1B IL2 IL21R IL4 IL6 KCNN4 KIF15 KIF20B KIF2C LDHA LDHB MAOA MAOB MAP2K5 MAPK1 MAPK3 MFN1 MGST1 MPO MRPL45 MRRF NDP NOS2 NOS3 NOTCH1 NT5E PDCC10 PGD PIK3R1 PLK1 PLK4 PPARG PRDX5 PTGS2 PTX3 RAF1 RELA SCD1 SERPINE1 SFXN4 SLC2A4 SNCA SREBF1 STK32A SULT1A1 SULT1A2 SULT1A3 SULT1C2 TNF TP53 TYR UBE2C UGT1A10 UGT1A3 UGT1A7 UGT1A8 VEGFA XDH ACX1 ATIC DHRS4 GAS2 GTF2I LDHB PH1897 RUVBL1 Rab22a SEC13
14	Cinnamic alcohol	ABCB1 ABCB11 AKT1 ALPL BAX BCL2 BMP2 BMP6 BMP7 CASP1 CASP3 CAT CDH2 CERT1 CLDN11 CYP7A1 DDIT4 ENO2 FGF15 FN1 HES1 HIF1A MAP2 MTOR NGF NLRP3 NOG NOTCH1 NOX1 NOX2 NR0B2 NR1H4 OCLN PRKAR2B PYCARD RELA RPS6K1 RUNX2 SIRT1 SMAD1 SMAD5 SMAD9 SOD2 SP7 SPP1 TGFBI TJP1 TUBB3 TXNIP ACR AOC3 CDH-1 CDH-2 DDX50 Ddes2150 ERBB2 FBP1 GLR1 HDAC6 xynB xynD
15	Salidroside	ABCB1 ABCB11 AKT1 ALPL BAX BCL2 BMP2 BMP6 BMP7 CASP1 CASP3 CAT CDH2 CERT1 CLDN11 CYP7A1 DDIT4 ENO2 FGF15 FN1 HES1 HIF1A MAP2 MTOR NGF NLRP3 NOG NOTCH1 NOX1 NOX2 NR0B2 NR1H4 OCLN PRKAR2B PYCARD RELA RPS6K1 RUNX2 SIRT1 SMAD1 SMAD5 SMAD9 SOD2 SP7 SPP1 TGFBI TJP1 TUBB3 TXNIP Acox1 DDB1 DNMT1 Egr1 FGF1 HHEX KIFC3 Kik1b4 NUP214 PDE3B
16	Vimalin	ACAD8 ACBD6 ACS1 ALOX12 Ache BMEI1586 CNDP1 CPSF3 CSDE1 CTDSP2
17	Rosin	ACAD8 ACBD6 ACS1 AF1548 ALOX12 Ache BMEI1586 CHN2 CNDP1 CPSF3
18	Rosavin	EZH2 ACLY AQP1 AQP3 AR COX1 CYBG DSG3 EGF ESR2 FBN1 FBN2 FGF1 HAS1 HSPB1 IGF1 KL MC1R NOS2 NOS3 PGR PLOD3 POMC PPARG PTGER1 RAD23A RXRA SOD3 SRD5A2 TERT TPT1 TXN TYRPI ACR AMA-1 Ache BT4395 CDH-1 CDH-2 CSDE1 DOCK9 FES GGH
19	Triandrin	ACAD8 ACBD6 Ache BMEI1586 CPSF3 CSDE1 CTDSP2 Chm DNMT1 FES
20	4-Methoxycinnamyl 6-O-alpha-L-arabinopyranosyl-b-D-glucopyranoside	ACAD8 ACR Ache Anxa5 BT4395 CCNE1 CSDE1 GGH MJ0882 NF2
21	Cinnamyl 6-O-beta-D-xylopyranosyl-beta-D-glucopyranoside	ACR Ache Acox1 Anxa5 BT4395 CCNE1 CDH-1 CDH-2 CSDE1 DPYS
22	Rosarin	ACR Ache Acox1 Anxa5 CCNE1 CDH-1 CDH-2 CSDE1 ESRRB FES
23	EGCG	ABCB1 BCL2 NFE2L2 DYRK1A TTR POLB PGAM1 DNMT1 APP STAT1 PGD BACE1 HIF1A DHFR DHFRP1 TERT MAPKAPK5 MAPT PTGES MAPK14 MET PKM GAA JUN MMP14 BAZ2B MMP2 GALK1 DPP4 NFKB1 ELANE MEN1 KMT2A ESR1 PIN1 GLI3 MMP7 TP53 NR1I3 TSHR AR THRB EP300 CNR1 PPARG ATF6 CREBBP FASN ESRRA KAT2B KAT5 HSP90AB1 ABCB11 BCL2L10 BCL2L1 BCL2L2 NCOA3 MCL1 NCOA1 BCL2A1 NCF1 PTGER2 GNAO1 RGS16 RGS8 RGS7 RGS19 RGS4 MAPK1 RAD51 SLC12A5 LMNA MAP3K3 MAP4K2 NPSR1 KLF5 NPBWR1 RGS12 GNAH1 GLA GBA BLM MBNL1 KCHN2 GAPDH GSK3B S1PR3 WEE1 NPY2R NPY1R HSP90AA1 RBBP9 VCP MCOLN3 S1PR4 EIF2AK3 JAK2 SLC6A3 ALPL X MPI DLD CACNA1B KCNQ1 CBFB RUNX1 NOD2 PTPN22 OPRK1 UBE2N NOD1 DUSP3 GPR55 CTNNB1 PHOSPHO1 PLEC TNFSF10 SENP6 EIF4H ALPI APLNR SENP8 UBE2I UBA2 SAE1 NLRP1 NLRP3 SENP7 GPR35 FKBP1A EIF4G1 CACNA1H RXFP1 PTGS2 PTGS1 EPAS1 USP2 RAB9A DRD2 NPC1 MDM4 MDM2 EYA2 ADRB2 APOBEC3A APOBEC3G TRHR KAT2A NTSR1 DRD1 APAF1 CCT2 TRP1 NR3C1 VDR NR1H4 RXRA PPARD ALB AHR PPARA NR1I2 NRP2 ATAD5 CYP19A1 RARA vif HDAC9 MITF ESR2 KCN6 YAP1 AKR1B10 ERBB2 RPSA PGR SMAD3 SMAD2 CGAS CASP3 CASP7 HSF1 SLC01B3 SLC01B1 ACE ICAM1 AAMDCC AAR2 AASDH ABCA1 ABCB1 ABCB10 ABCB11 ABCO1 ABCO2 ABCO4 ABCO5 ABCO3 ABCO1 ABCG1 ABCG2 ABHD6 ABL2 ABR ACACA ACADM ACADSB ACAP2 ACAT2 ACE ACLY ACOT13 ACSL1 ACS2 ACTA2 ACTB ACT2 ACTR10 ADAM19 ADAM20 ADAMTS12 ADAMTS15 ADAMTS4 ADAMTS5 ADAMTSL4-AS1 ADARB1 ADAT1 ADGRE1 ADM ADRA1B ADRB2 ADSS ADSS2 AFF1 AFG1L AGAP1 AGER AGL AGPS AGTR1 AHCY AHR AIDA AIFM1 AIMP1 AJUBA AKAP13 AKAP9 AKIP1 AKIRIN2 AKR1C1 AKR1C2 AKR1C3 AKT1 AKT3 AKTIP ALDH3A2 ALDOA ALDOC ALG14 ALG6 ALG8 ALPK2 AMH AMMECR1 AMPD1 ANAPC10 ANAPC4 ANAPC7 ANK1B1 ANKMY2 ANKRD10 ANKRD26 ANKRD36 ANKRD44 ANO1 ANO4 ANO6 ANXA11 ANXA4 APOEP AP1S3 AP2A2 AP5S1 APAF1 ACR ATIC Ache Alad CAPN9 CCNE1 CSDE1 CUL5 Flot2 HA
24	EGC-EGCG	ALOX12 AZGP1 Alad CSDE1 Cyb5a EIF4A1 F13A1 FUT8 Flot2 GAL10
25	2EGCG	ACBD7 ALOX12 Ache CITED2 Capn2 MKI67 NKT1 PAB1 PH0601 PRPS1
26	2EGC-EGCG	ACX1 ARHGAP11A ARHGEF12 CDC4 CITED2 CSDE1 CUL1 CYP2C5 Cnot4 F13A1
27	EGC-2EGCG	ACBD7 CPK1 CSDE1 CUL1 CUL5 EIF4A1 EP300 GAL10 GOT1 IL10RA
28	3EGCG	yh1A yx1F ARHGAP11A AZGP1 Alad CDC13 CKX7 CSDE1 Capn2 Dab1
29	2EGC-2EGCG	ACADVL ACX1 ARHGAP11A CSDE1 Grin3a HSD11B1 Ighg1 MMP2 RGS6 SERPING1
30	EGC-3EGCG	
31	4EGCG	
32	2EGC-3EGCG	ACR AR AZGP1 CBL4 CLPP CPK1 CSDE1 CUL1 GAL10 GOT1
33	Rhodiolin	CEP3 CLIC2 CPSF3 Cyb5b FKBP4 HB1 HD1794 L2 NUP214 PAL
34	(2R,3R)-6,8-dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-3-(hydroxymethyl)-9-(4-hydroxyphenyl)-2,3-dihydro-7H-(1,4)dioxino[2,3-h]chromen-7-one	ACADVL CAM CEP3 CLCNKA CPSF3 DHRS1 Ets1 GCDH H2-Ea Musk
35	(2R,3S,4R,5R,6S)-2-(4-((5-(4-hydroxy-3-methoxyphenyl)-4-(hydroxymethyl)tetrahydrofuran-3-yl)methyl)-2-methoxyphenoxy)-6-(hydroxymethyl)tetrahydro-2H-pyran-3,4,5-triol	ACR ALOX12 BT4395 CDC19 CPB2 CSDE1 Dlg1 Gcm1 H2-K1 MID1
36	4-(((2S,3R,4S,5S,6R)-3,4,5-Trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy) benzaldehyde	ACO1 At1g07440 At1g07450 BMPR2 CKX7 CPSF3 CST7 DMD FN1 FOL1
37	Benzyl beta-d-glucopyranoside	ACBD6 ACO1 At1g07440 At1g07450 CPSF3 FGA HAO1 IGF1R KIFC3 Kik1b4
38	3,5-dihydroxy-2-(4-hydroxyphenyl)-8-(((2R,3R,4S,5S,6S)-3,4,5,6-tetrahydroxytetrahydro-2H-pyran-2-yl)oxy)-7-(((2S,3R,4R,5R,6S)-3,4,5-trihydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-4H-chromen-4-one	CSDE1 DPYS EPHB2 FAS2 GOT1 LYS3 MAG11 MID1 Ngly1 PES1
39	Rhodiolgin	ACR AMA-1 COG2 CRS2 CSDE1 EXOSC9 F13A1 FAS2 GAN Nlgn1
40	5,7-dihydroxy-2-(4-hydroxyphenyl)-3-((3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-8-((3,4,5-trihydroxytetrahydro-2H-pyran-2-yl)oxy)-4H-chromen-4-one	Acox1 DNMT1 Fah GPD1L HAO1 HHEX MT-CYB PCNA PMP2 RAB31
41	Rhodionin	ACR Anxa5 CSDE1 Cyt-b5 DDX58 Fah GAN GOT1 HGD MYD88
42	2-(3,4-dihydroxyphenyl)-3,5-dihydroxy-8-((3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-7-(((2S,3R,4R,5R,6S)-3,4,5-trihydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-4H-chromen-4-one	EPHB2 Ech1 HBP1 MAP2K6 PES1 RUVBL1 SLC30A9 VC1409 VTC2 Vcp
43	3,5,7-trihydroxy-2-(4-hydroxyphenyl)-8-((3,4,5-trihydroxytetrahydro-2H-pyran-2-yl)oxy)-4H-chromen-4-one	ACADS ASS1 Acox1 CC0490 CPSF3 Cyb5r3 DNAJC30 Egr1 FGA HB1
44	7-((3,5-dihydroxy-6-methyl-4-(((2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2-yl)oxy)-3,5,8-trihydroxy-2-(4-hydroxyphenyl)-4H-chromen-4-one	ARSA COMTD1 DBT DSP FAS2 GAS2 GPH1 MAGI1 MID1 PES1
45	Kaempferol	CA7 AHR CYP1B1 CISD1 CA12 HSD17B2 DPP4 CYP1A1 CYP1A2 CSNK2B CSNK2A1 CSNK2A2 TYR HSD17B1 XDH NOX4 Dyrk1a Akr1b1 HIF1A ALOX15 MPO FLT3 ABCC1 ALOX5 GSK3B GSK3A SLC2A1 ABCG2 PGR CYP2C9 Abcb1a ABCB1 ESR1 Sialidase CA2 ESRRA ESR2 AR CTDSP1 CYP2D6 DAPK1 MAPT HDAC9 BACE1 CYP3A4 RARA Enoyl GLO1 GLI3 NFE2L2 CDK6 POLH HPGD LOC116160065 NR1I3 CCNB3 CDK1 CCNB2 CCNB1 NR1I2 Neuraminidase BCHE RACGAP1 POLI PIM2 CLK1 STK16 Syk Plcg2 Plcg1 PAFAH1B3 CHRMI1 Prkaa2 Pparg RdRp PIP4K2A daf ADAM10 ADAM17 SIAE NR3C1 CYP19A1 PNLP SMAD3 SMAD2 APP NFKB1 RELB NFKB2 ABCB1 ABCC1 ACHE ACTA2 AFP AHR AIP AKT1 ALOX12 ALOX5 APOE APP AR ARNT ATM B3GALT5 BAC BBC3 BCL2 BCL2A1 BCL2L1 BMPT2 BMP4 CALOR CASP1 CASP3 CASP9 CAT CCKAR CCL2 CCL5 CCN5 CCNB1 CCND1 CD14 CD44 CDK1 CDKN1A CDKN2C CFTR CHEK1 CHEK2 CHUK COL10A1 COL2A1 CPT1A CRP CS CSF2 CTNNB1 CXCL8 CYCB CYCS CYP1A1 CYP1A2 CYP1B1 CYP2C9 CYP2E1 CYP3A4 DHRS11 DHRS4 DIO2 DUOX1 EP300 ESR1 ESR2 FBP1 FN1 FOS GADD45B GCLC GPT GREB1 GSK3B GSTA1 GSTM2 GSTP1 H2AX HBB HCAR2 HGF HIF1A HMBOX1 ICAM1 IFNG IL1B IL32 IL4 IL5 IL6 INS1 IRAK1 ITGAM JUN KMT2A LAMB2 MAP3K7 MAPK1 MAPK3 MAPK8 MAPK9 MET MMP2 MOD2 MT2A MUC5AC NANOQ NCOA3 NFE2L2 NFKBIA NOS2 NOX4 NQO1 NR1I2 NR1I3 OCLN PARP1 PCNA PGR POU5F1 PPARG PPARG1A PSCA PTGES PTGS2 PYCARD RELA RIPK1 RPA3 RUNX2 SELE SFN SLC16A1 SLC2A1 SLC2A4 SLC5A8 SLC01B1 SLC01B3 SLC02B1 SOD1 SOD2 SOX9 SPP1 STAT1 STAT2 TFAM TFF1 TGFA TJP1 TK1 TNF TNFAIP3 TNFRSF11A TNFSF11 TP53 TP53I3 TP63 TP73 TRAF6 TSLP TUBB3 UCP1 UCP3 UGT1A1 UGT1A10 UGT1A3 UGT1A7 UGT1A8 UGT1A9 UTRN VCAM1 VDR VEGFA XDH ADAM17 BLVRA CPSF3 ERBB4 FLNB FUT8 Flot2 HSPA8 NUP214 PRO2
46	Kaempferol 3-O-beta-L-glucopyranoside	P4HB GSK3A GFER CRS2 ECI1 EXOSC9 GID1A IMPDH KAP95 NCF2 PAL PAPI PRP24
47	Sexangularetin	ACADS ACX1 ADAM17 At1g07440 At1g07450 BLVRA CUEDC1 ECH1 ERBB4 FLNB
48	3,5,7-trihydroxy-2-(4-hydroxyphenyl)-8-((3,4,5-trihydroxytetrahydro-2H-pyran-2-yl)oxy)-4H-chromen-4-one	ADAM17 Acox1 CC0490 CPSF3 CTDSP2 CUL5 Cyb5r3 DNAJC30 DSL1 FGA
49	Kaempferol-7-rhamnoside	ALAD BLVRA Cyb5a Cyb5b Ets1 GOT1 HGD Ighg1 MYD88 NCALD
50	5-hydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-7-((3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-4H-chromen-4-one	CHI1 DPEP DSP EPHB2 GALM HAO1 LDHB RAB31 RNF8 RORA
51	7-hydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-5-((3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-4H-chromen-4-one	ACR Ache Acox1 CST7 DEK DSP FAS2 HAO1 HECTD1 Lhx3
52	Tricin	AKR1B1 PTGS1 PTGS2 Acox1 DRAP1 Ets1 FUT8 Flot2 GOT2 GRB14 HSPA8 MJ0158
	Acetazolamide	CA11 CA6 CA14 CA2 CA4 CA12 CA5B CA13 CA1 CA5A CA9 CA7 CA3 AQP4 MMP12 MMP2 ACAN ARNT COL18A1 CREBBP CTNND1 DCN EGFR EGLN1 EP300 FLT1 FYN HIF1A HIF1AN IL6 JAK1 JAK2 KDR MMP14 MMP9 NRP2 PXN SRC STAT3 TCEB1 TCEB2 TIMP1 TIMP2 TIMP3 VEGFA VHL SCN4A GH-LCR CACNA1A CA2 CACNA1S CA1 SLC2A1 KCNA2 CA14 DARS2 EA3 CACNB4 SCN2A SLC1A3 BPPV KCNA1 CA12 KCNJ2 PIGT CA5B PDHA1 GLUT1 DEE32 ASPRS. LBSL CACNL1A3 LQJ6 SCN2A1 EAATI AEMK HYPP HIRK1 CACNL1A4 NADP PHE1A HTLVR CCHL1A3 EA5 BFIC3 EA6 EA1 NAC1A KIR2.1 SCA6 PNH2 PDHAD DYT18 TTPP1 EI9G DEE11 HOKP2 IRK1 DEE42 MCAHS3 PED HOKP1 BFIS3 CMS16 L277 GLUT1DS MHS5 BSNIS SQT3 EI612 EA9 ATFB9 DY19 SDXCH

Table S2 Enriched KEGG pathways (false discovery rate $\leq E^{-6}$)

<i>Rhodiola</i>	Acetazolamide	Combined
Term ID	#term ID	#term ID
hsa05200	hsa00910	hsa05200
hsa05418	hsa04066	hsa05418
hsa05161	hsa05211	hsa05161
hsa04068	hsa05200	hsa04068
hsa05215	hsa05205	hsa05215
hsa04933	hsa01521	hsa04933
hsa04110	hsa05167	hsa04110
hsa05206	hsa04520	hsa05206
hsa04066	hsa05219	hsa04066
hsa05203	hsa05161	hsa05203
hsa05166	hsa05206	hsa05166
hsa05167	hsa04630	hsa05167
hsa04210	hsa04510	hsa04210
hsa05202		hsa05202
hsa05212		hsa05212
hsa04010		hsa04010
hsa04668		hsa04668
hsa05162		hsa05162
hsa01522		hsa01522
hsa05165		hsa05165
hsa04380		hsa04380
hsa04151		hsa04151
hsa05210		hsa05210
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hsa05164		hsa05164
hsa05224		hsa05224
hsa04659		hsa04659
hsa05145		hsa05145
hsa05152		hsa05152
hsa04621		hsa04621
hsa01521		hsa01521
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hsa05134		hsa05134
hsa05220		hsa05220
hsa05205		hsa05205
hsa04620		hsa04620
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hsa05214		hsa05214
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hsa05219		hsa05219
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hsa05211		hsa05211
hsa04917		hsa04917
hsa05213		hsa05213
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hsa04920		hsa04920
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hsa04024		hsa04024
hsa00140		hsa00140
hsa04060		hsa04060
hsa04664		hsa04664
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hsa04630		hsa04630
hsa05204		hsa05204
hsa04137		hsa04137
hsa05323		hsa05323
hsa04931		hsa04931
hsa04520		hsa04520
hsa04370		hsa04370
hsa04510		hsa04510
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hsa04213		hsa04213
hsa00980		hsa00980
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hsa05146		hsa05146
hsa05120		hsa05120
hsa04152		hsa04152
hsa04217		hsa04217
hsa04071		hsa04071
hsa00910		hsa00910
hsa04725		hsa04725
hsa04658		hsa04658
hsa04726		hsa04726
hsa00982		hsa00982
hsa05144		hsa05144
hsa04922		hsa04922
hsa04910		hsa04910
hsa04062		hsa04062
hsa04014		hsa04014
hsa01200		hsa01200
hsa04114		hsa04114
hsa04728		hsa04728
hsa05030		hsa05030
hsa04662		hsa04662
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hsa04390		hsa04390
hsa05020		hsa05020
hsa04622		hsa04622
hsa01212		hsa01212
hsa05131		hsa05131
hsa05014		hsa05014
hsa00983		hsa00983
hsa04921		hsa04921
hsa04141		hsa04141
hsa04912		hsa04912
hsa05231		hsa05231
hsa00071		hsa00071
hsa02010		hsa02010
hsa04623		hsa04623
hsa03320		hsa03320
hsa05416		hsa05416
hsa05143		hsa05143
hsa05016		hsa05016
hsa00350		hsa00350
hsa00010		hsa00010
hsa04540		hsa04540
hsa05200	Pathways in cancer	Pathways in cancer
hsa05418	Fluid shear stress and atherosclerosis	Fluid shear stress and atherosclerosis
hsa05161	Hepatitis B	Hepatitis B
hsa04068	FoxO signaling pathway	FoxO signaling pathway
hsa05215	Prostate cancer	Prostate cancer
hsa04933	Advanced glycation end products-receptor for advanced glycation end products (AGE-RAGE) signaling pathway in diabetic complications	AGE-RAGE signaling pathway in diabetic complications
hsa04110	Cell cycle	Cell cycle
hsa05206	MicroRNAs in cancer	MicroRNAs in cancer
hsa04066	HIF-1 signaling pathway	HIF-1 signaling pathway
hsa05203	Viral carcinogenesis	Viral carcinogenesis
hsa05166	HTLV-I infection	HTLV-I infection
hsa05167	Kaposi's sarcoma-associated herpesvirus infection	Kaposi's sarcoma-associated herpesvirus infection
hsa04210	Apoptosis	Apoptosis
hsa05202	Transcriptional misregulation in cancer	Transcriptional misregulation in cancer
hsa05212	Pancreatic cancer	Pancreatic cancer
hsa04010	Mitogen-activated protein kinase (MAPK) signaling pathway	MAPK signaling pathway
hsa04668	Tumor necrosis factor (TNF) signaling pathway	TNF signaling pathway
hsa05162	Measles	Measles
hsa01522	Endocrine resistance	Endocrine resistance
hsa05165	Human papillomavirus infection	Human papillomavirus infection
hsa04380	Osteoclast differentiation	Osteoclast differentiation
hsa04151	Phosphatidylinositol 3'-kinase (PI3K-Akt) signaling pathway	PI3K-Akt signaling pathway
hsa05210	Colorectal cancer	Colorectal cancer
hsa04218	Cellular senescence	Cellular senescence
hsa04657	Interleukin 17 (IL-17) signaling pathway	IL-17 signaling pathway
hsa05225	Hepatocellular carcinoma	Hepatocellular carcinoma
hsa04064	Nuclear factor-kappa B (NF-kappa B) signaling pathway	NF-kappa B signaling pathway
hsa05169	Epstein-Barr virus infection	Epstein-Barr virus infection
hsa05142	Chagas disease (American trypanosomiasis)	Chagas disease (American trypanosomiasis)
hsa05164	Influenza A	Influenza A
hsa05224	Breast cancer	Breast cancer
hsa04659	Th17 cell differentiation	Th17 cell differentiation
hsa05145	Toxoplasmosis	Toxoplasmosis
hsa05152	Tuberculosis	Tuberculosis
hsa04621	Nucleotide-binding and oligomerization domain (NOD)-like receptor signaling pathway	NOD-like receptor signaling pathway
hsa01521	Epidermal growth factor receptor (EGFR) tyrosine kinase inhibitor resistance	EGFR tyrosine kinase inhibitor resistance
hsa04919	Thyroid hormone signaling pathway	Thyroid hormone signaling pathway
hsa05134	Legionellosis	Legionellosis
hsa05220	Chronic myeloid leukemia	Chronic myeloid leukemia
hsa05205	Proteoglycans in cancer	Proteoglycans in cancer
hsa04620	Toll-like receptor signaling pathway	Toll-like receptor signaling pathway
hsa05218	Melanoma	Melanoma
hsa04115	p53 signaling pathway	p53 signaling pathway
hsa05214	Glioma	Glioma
hsa05133	Pertussis	Pertussis
hsa04914	Progesterone-mediated oocyte maturation	Progesterone-mediated oocyte maturation
hsa04926	Relaxin signaling pathway	Relaxin signaling pathway
hsa05223	Non-small cell lung cancer	Non-small cell lung cancer
hsa05160	Hepatitis C	Hepatitis C
hsa04915	Estrogen signaling pathway	Estrogen signaling pathway
hsa05219	Bladder cancer	Bladder cancer
hsa05222	Small cell lung cancer	Small cell lung cancer
hsa05140	Leishmaniasis	Leishmaniasis
hsa05221	Acute myeloid leukemia	Acute myeloid leukemia
hsa05226	Gastric cancer	Gastric cancer
hsa04660	T cell receptor signaling pathway	T cell receptor signaling pathway
hsa05211	Renal cell carcinoma	Renal cell carcinoma
hsa04917	Prolactin signaling pathway	Prolactin signaling pathway
hsa05213	Endometrial cancer	Endometrial cancer
hsa01524	Platinum drug resistance	Platinum drug resistance
hsa04350	transforming growth factor-beta (TGF-beta) signaling pathway	TGF-beta signaling pathway
hsa04932	Non-alcoholic fatty liver disease (NAFLD)	Non-alcoholic fatty liver disease (NAFLD)
hsa05168	Herpes simplex infection	Herpes simplex infection
hsa04722	Neurotrophin signaling pathway	Neurotrophin signaling pathway
hsa01100	Metabolic pathways	Metabolic pathways
hsa04140	Autophagy—animal	Autophagy—animal
hsa05132	Salmonella infection	Salmonella infection
hsa05230	Central carbon metabolism in cancer	Central carbon metabolism in cancer
hsa04550	Signaling pathways regulating pluripotency of stem cells	Signaling pathways regulating pluripotency of stem cells
hsa05321	Inflammatory bowel disease (IBD)	Inflammatory bowel disease (IBD)
hsa04920	Adipocytokine signaling pathway	Adipocytokine signaling pathway
hsa04012	Receptor tyrosine-protein kinase erbB (ErbB) signaling pathway	ErbB signaling pathway
hsa04211	Longevity regulating pathway	Longevity regulating pathway
hsa04371	Apelin signaling pathway	Apelin signaling pathway
hsa04024	Cyclic adenosine 3', 5'-monophosphate (cAMP) signaling pathway	cAMP signaling pathway
hsa00140	Steroid hormone biosynthesis	Steroid hormone biosynthesis
hsa04060	Cytokine-cytokine receptor interaction	Cytokine-cytokine receptor interaction
hsa04664	Receptor for the Fc region of IgE (Fc epsilon RI) signaling pathway	Fc epsilon RI signaling pathway
hsa05034	Alcoholism	Alcoholism
hsa05216	Thyroid cancer	Thyroid cancer
hsa04630	Janus kinase/signal transducers and activators of transcription (Jak-STAT) signaling pathway	Jak-STAT signaling pathway
hsa05204	Chemical carcinogenesis	Chemical carcinogenesis
hsa04137	Mitophagy—animal	Mitophagy—animal
hsa05323	Rheumatoid arthritis	Rheumatoid arthritis
hsa04931	Insulin resistance	Insulin resistance
hsa04520	Adherens junction	Adherens junction
hsa04370	Vascular endothelial growth factor (VEGF) signaling pathway	VEGF signaling pathway
hsa04510	Focal adhesion	Focal adhesion
hsa01523	Antifolate resistance	Antifolate resistance
hsa04934	Cushing's syndrome	Cushing's syndrome
hsa04213	Longevity regulating pathway - multiple species	Longevity regulating pathway - multiple species
hsa00980	Metabolism of xenobiotics by cytochrome P450	Metabolism of xenobiotics by cytochrome P450
hsa04015	Rap1 signaling pathway	Rap1 signaling pathway
hsa05146	Amoebiasis	Amoebiasis
hsa05120	Epithelial cell signaling in Helicobacter pylori infection	Epithelial cell signaling in Helicobacter pylori infection
hsa04152	AMP-activated protein kinase (AMPK) signaling pathway	AMPK signaling pathway
hsa04217	Necroptosis	Necroptosis
hsa04071	Sphingolipid signaling pathway	Sphingolipid signaling pathway
hsa00910	Nitrogen metabolism	Nitrogen metabolism
hsa04725	Cholinergic synapse	Cholinergic synapse
hsa04658	Th1 and Th2 cell differentiation	Th1 and Th2 cell differentiation
hsa04726	Serotonergic synapse	Serotonergic synapse
hsa00982	Drug metabolism - cytochrome P450	Drug metabolism - cytochrome P450
hsa05144	Malaria	Malaria
hsa04922	Glucagon signaling pathway	Glucagon signaling pathway
hsa04910	Insulin signaling pathway	Insulin signaling pathway
hsa04062	Chemokine signaling pathway	Chemokine signaling pathway
hsa04014	Ras signaling pathway	Ras signaling pathway
hsa01200	Carbon metabolism	Carbon metabolism
hsa04114	Oocyte meiosis	Oocyte meiosis
hsa04728	Dopaminergic synapse	Dopaminergic synapse
hsa05030	Cocaine addiction	Cocaine addiction
hsa04662	B cell receptor signaling pathway	B cell receptor signaling pathway
hsa04976	Bile secretion	Bile secretion
hsa05010	Alzheimer's disease	Alzheimer's disease
hsa04215	Apoptosis - multiple species	Apoptosis - multiple species
hsa04916	Melanogenesis	Melanogenesis
hsa04390	Hippo signaling pathway	Hippo signaling pathway
hsa05020	Prion diseases	Prion diseases
hsa04622	Retinoic acid-inducible gene I (RIG-I)-like receptor signaling pathway	RIG-I-like receptor signaling pathway
hsa01212	Fatty acid metabolism	Fatty acid metabolism
hsa05131	Shigellosis	Shigellosis
hsa05014	Amyotrophic lateral sclerosis (ALS)	Amyotrophic lateral sclerosis (ALS)
hsa00983	Drug metabolism - other enzymes	Drug metabolism - other enzymes
hsa04921	Oxytocin signaling pathway	Oxytocin signaling pathway
hsa04141	Protein processing in endoplasmic reticulum	Protein processing in endoplasmic reticulum
hsa04912	GnRH signaling pathway	GnRH signaling pathway
hsa05231	Choline metabolism in cancer	Choline metabolism in cancer
hsa00071	Fatty acid degradation	Fatty acid degradation
hsa02010	Human ATP-binding cassette (ABC) transporters	ABC transporters
hsa04623	Cytosolic DNA-sensing pathway	Cytosolic DNA-sensing pathway
hsa03320	PPAR signaling pathway	PPAR signaling pathway
hsa05416	Viral myocarditis	Viral myocarditis
hsa05143	African trypanosomiasis	African trypanosomiasis
hsa05016	Huntington's disease	Huntington's disease
hsa00350	Tyrosine metabolism	Tyrosine metabolism
hsa00010	Glycolysis / Gluconeogenesis	Glycolysis / Gluconeogenesis
hsa04540	Gap junction	Gap junction

Table S3 Disease-related genes

Keywords	Related genes
Altitude sickness	GUCY1A1 SDC4 FOS CA2 CLU TIMP1 CDKN1B JTB KNG2 FAS RAB40C UMOD MPO CYP2B15 CASP3 SMARCC1 STYX ARHGAP45 CA1 CD5 RGS8 CBX3 NKX2-1 CA3 ELANE PLA2G1B RBMX MYO9B NNAT SCHIP1 POU2F1 TRIM25 TMEM30B PTPRR ARHGAP45 CA4 MECR PPM1B BMPR2 ARID2 DDX6 CA12 DDX3X BCKDHB POLR1B SATB1 WNK1 AKAP9 GRK6
Brain edema	TNF NOS2 S100B PLAU MYLK MYL9 NAXE ZNHIT3 MMP9 PLAT NTN1 BCL2 CASP3 BAX CAT FOS JUN RELA MAPK3 MAPK1 IL6 CTNNB1 HMOX1 VCAM1 CCL2 IL1B VEGFA GSK3B AGT SOD2 BDNF PTGS2 FAS COL1A1 CREB1 PARP1 NFE2L2 AKT1 CDKN1A NOS3 NFKBIA EGR1 CASP9 MAPK8 SOD1 CCND1 MMP2 BCL2L1 JUNB NFKB1
Hypoxia, brain	VEGFA HIF1A NOS2 ITPR2 IRAK1 ITPR1 IRAK4 PNPO HPCAL1 GFAP CDKN1A CCNA2 CASP4 NFKBIA SGK1 NOS1 CTNNB1 CCND1 SLC4A3 MAPK3 MAPK1 CCL2 PLCG1 RGS4 CASP9 TH SPHK1 BCL2L1 MAPK14 GDNF FBXO32 DDIT3 CTSK ADORA1 TP53 NFKBIA MAPK8IP3 TRP53 CREB1 CRH BDNF TRIM63 PLEKHA5 JUN MMP9 RGS2 CREB1 ATF6 CASP8 CYCS
Hypoxia	TNF NOS2 S100B PLAU MYLK MYL9 NAXE ZNHIT3 MMP9 PLAT NTN1 BCL2 CASP3 BAX CAT FOS JUN RELA MAPK3 MAPK1 IL6 CTNNB1 HMOX1 VCAM1 CCL2 IL1B VEGFA GSK3B AGT SOD2 BDNF PTGS2 FAS COL1A1 CREB1 PARP1 NFE2L2 AKT1 CDKN1A NOS3 NFKBIA EGR1 CASP9 MAPK8 SOD1 CCND1 MMP2 BCL2L1 JUNB NFKB1
Hypoxia-ischemia, brain	VEGFA HIF1A NOS2 IRAK1 IRAK4 PNPO HPCAL1 GFAP CDKN1A CCNA2 CASP4 NFKBIA SGK1 NOS1 CTNNB1 CCND1 MAPK3 MAPK1 CCL2 PLCG1 RGS4 CASP9 TH SPHK1 BCL2L1 MAPK14 GDNF FBXO32 DDIT3 CTSK TP53 MAPK8IP3 TRP53 CRH BDNF TRIM63 PLEKHA5 JUN MMP9 RGS2 CREB1 ATF6 CASP8 CYCS CCND3 SQSTM1 CASP3 VCAM1 ARHGAP29 GSK3B
Polycythemia	GH1 JAK2 EPOR BPGM EGLN1 EPAS1 EPOR HBA1 HBB JAK2 SH2B3 SLC30A10 VHL GSK3B ENG BAX PPARGC1A EDNRA EDN1 CYBA IL1B IL1A NOS3 TYK2 ITPKB COL1A1 KCND3 IL6 CD151 PPIB ACE COL3A1 SIVA1 PRKCA TOMM20 NFE2L1 RELA PDE10A PRL XDH AGTR2 BCL2 ATRX TLR4 TGFB1 CYP19A1 CKS2 FOS CREB1 CYCS
Pulmonary arterial hypertension	BMPR2 CTNNB1 AGTR1 APECAM1 ACE2 EDNRA MYD88 VEGFA NOX4 TNFRSF13C BCL2A1B ACE GFAP TFRC MS4A6D CLEC5A CRLF2 GPR65 NOS2 TNFSF10 IL18 RELA TREM1 CD19 CXCL10 CLEC4E MS4A1 KCNE2 CCL5 TLR4 FNDC1 CAR8 CXCL1 LYVE1 IL17RA NOD2 RETNLA CD3G RMDN2 TIMP1 CD22 VCAM1 EDN1 GSK3B POLR1B MAPK3 MAPK1 IRAK3 TLR9 KCNB1
Pulmonary edema of mountaineers	GUCY1A1 SMARCC1 ARHGAP45 CBX3 RBMX POU2F1 TRIM25 CA1 PPM1B BMPR2 CA12 DDX3X AKAP9 ANP32A ITPR2 CA9 CD47 CIRBP HTRA1 SC5D AQP1 CA2 NDRG1 CCND2 MT1 EDN1 FOS BEC-1 CA6 FAM192BP ZFP617 CA7 CA14 AKAP17B ZFP322A CA5B ADA2B CA15A CBLN6 CCL19A.2 CTAGE3P EPA1 FGF2BP2A H41 HCCSB LRRC2-AS1 MRPS31P5 RCP9 RHOXF2B SAS10