

Contents

Supplementary Table 1. 236 chemical components contained in FFDS.....	2
Supplementary Table 2. 201 symbols of FFDS targets	8
Supplementary Table 3. 1,576 therapeutic targets for CHD and 471 therapeutic targets for hyperlipidemia.....	8
Supplementary Table 4. 28 therapeutic targets that FFDS may act upon in patients with SCHD	16

Supplementary Table 1. 236 chemical components contained in FFDS.

protocatechuic acid
5-isopropyl-2-methylbicyclo[3.1.0]hex-2-ene
[(3R)-3,7-dimethylocta-1,6-dien-3-yl]acetate
Cymol
NERYLACETATE
EIC
protocatechualdehyde
1,2,5,6-tetrahydrotanshinone
beta-Chamigrene
Poriferasterol
poriferast-5-en-3beta-ol
D-Camphene
isoimperatorin
(R)-linalool
cyanidol
Moslene
1H-Cycloprop(e)azulen-7-ol, decahydro-1,1,7-trimethyl-4-methylene-, (1aR-(1aalpha,4aalpha,7beta,7abeta,7balpha))-sugiol
caffeic acid
(-)-beta-Phellandrene
oleanolic acid
Dehydrotanshinone II A
VIV
Baicalin
[(1S)-endo]-(-)-Borneol
succinic acid
beta-caryophyllene
L-Serin
Threonin
PHA
LPG
tigogenin
Physcion
TMH
GLY
ursolic acid
Gulutamine
L-
(-)-Epicedrol
Leucinum
h-Met-h

L-Lysin
DTY
digallate
isoferulic acid
luteolin
Prolinum
8-isopropylidene-1,5-
dimethylcyclodeca-1,5-diene
ASI
L-Valin
oleic acid
L-Ile
palmitic acid
(E)-3-(3-hydroxy-4,5-dimethoxy-
phenyl)acrylic acid
5,6-dihydroxy-7-isopropyl-1,1-
dimethyl-2,3-dihydrophenanthren-4-
one
1,2-DT-Quinone
Dehydromiltirone
1-ketoisocryptotanshinone
2-isopropyl-8-methylphenanthrene-3,4-
dione
3 α -hydroxytanshinone II a
3 β -Hydroxytanshinone IIA
(1R,4R,5S)-1-isopropyl-4-methyl-4-
bicyclo[3.1.0]hexanol
(E)-3-[2-(3,4-dihydroxyphenyl)-7-
hydroxy-benzofuran-4-yl]acrylic acid
4-methylenemiltirone
2-(4-hydroxy-3-methoxyphenyl)-5-(3-
hydroxypropyl)-7-methoxy-3-
benzofurancarboxaldehyde
6-o-syringyl-8-o-acetyl shanzhiside
methyl ester_qt
7-oxoroleanone2
(4bS,8aS,10S)-10-hydroxy-2-isopropyl-
4b,8,8-trimethyl-5,6,7,8a,9,10-
hexahydrophenanthrene-3,4-dione
formyltanshinone
3-beta-Hydroxymethylenetanshinquinone
Methylenetanshinquinone
przewalskin a
przewalskin b
przewalskin c
przewalskin d
Przewaquinone A
Przewaquinone B
przewaquinone c

(6S,7R)-6,7-dihydroxy-1,6-dimethyl-8,9-dihydro-7H-naphtho[8,7-g]benzofuran-10,11-dione
przewaquinone f
(2S)-3-(3,4-dihydroxyphenyl)-2-hydroxypropanoic acid
saloilenone
sclareol
tanshinaldehyde
Tanshinol A
Danshenol B
Danshenol A
Z-8-Hexadecen-1-ol acetate
Salvilenone
carnosol
cryptotanshinone
dan-shexinkum a
dan-shexinkum b
dan-shexinkum d
danshenspiroketallactone
danshenspiroketallactoneii
deoxyneocryptotanshinone
dihydroisotanshinone I
Istidina
dihydrotanshinolactone
dihydrotanshinone I
diisopro-penyl methyl vinyl cyclohexane2
epidanshenspiroketallactone
ethyl lithospermate
C09092
isocryptotanshinone
isosalvianolic acid c
isotanshinone iib
Isotanshinone II
Isotanshinone I
lithospermic acid
manool
methylrosmarinate
methyltanshinonate
miltionone I
miltionone II
miltipolone
Miltirone
neocryptotanshinone ii
neocryptotanshinone
przewalskin
1-methyl-8,9-dihydro-7H-naphtho[5,6-g]benzofuran-6,10,11-trione
potassium salvianolate d

prolithospermic acid
 (2S,3S)-2-(3,4-dihydroxyphenyl)-7-hydroxy-4-[(E)-3-hydroxy-3-oxoprop-1-enyl]-2,3-dihydrobenzofuran-3-carboxylic acid
 (2R)-3-(3,4-dihydroxyphenyl)-2-[(Z)-3-(3,4-dihydroxyphenyl)acryloyl]oxypropionic acid
 salviacoccin
 danshensu
 salvianic acid c
 salvianolic acid a
 salvianolic acid c
 salvianolic acid d
 salvianolic acid g
 salvianolic acid j
 salvilenone I
 salviolone
 methyl (1S,4aS,5R,7S,7aS)-5,7-dihydroxy-7-methyl-1-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxy-4a,5,6,7a-tetrahydro-1H-cyclopenta[d]pyran-4-carboxylate
 shanzhiside methyl ester_qt
 (6S)-6-hydroxy-1-methyl-6-methylol-8,9-dihydro-7H-naphtho[8,7-g]benzofuran-10,11-quinone
 Tanshindiol B
 Przewaquinone E
 Tanshilactone
 tanshinone iia
 (6S)-6-(hydroxymethyl)-1,6-dimethyl-8,9-dihydro-7H-naphtho[8,7-g]benzofuran-10,11-dione
 tanshinone VI
 tanshinone i
 Spirostan-3-ol, (3beta,5alpha,25S)-
 β-cadinol
 apigenin
 stearic acid
 hexadecane
 luteolin-7-o-glucoside
 (R)-p-Menth-1-en-4-ol
 Germacrene D
 (1R,4S,4aR,8aR)-4-isopropyl-1,6-dimethyl-3,4,4a,7,8,8a-hexahydro-2H-naphthalen-1-ol
 1,8-cineole
 (+/-)-Isoborneol

Myrcene
(S)-(+)-alpha-Phellandrene
ZINC00968101
Hemo-sol
()-alpha-Terpineol
()-Borneol
CHEBI:7
beta-Humulene
(-)-Epoxycaryophyllene
beta-elemene
Neryl acetate
(S)-camphor
Isosafrole
 α -pinenepinene
 β -terpineol
()-beta-Pinene
(5S)-1-isopropyl-4-methylbicyclo[3.1.0]hex-3-ene
LINALOOL (D)
PEL
2-ACETILPYRROLE
(+)-Ledol
myristic acid
Mandenol
Daturic acid
Hypnon
alpha-Guaiene
zoomaric acid
DFV
Cadalin
ZINC02169908
hexanoic acid
PTL
farnesol
3691-11-0
Picein
Piceol
butylated hydroxytoluene
Diop
caprylic acid
lauric acid
Sitogluside
beta-sitosterol
2-Coumarate
5-METHYLFURFURAL
MEHQ
Stigmasterol
2-octanone
ginsenoside rh2

1-Hydroxycumene
(-)-alpha-cedrene
alloaromadrene
hexanal
[(1R)-1-methoxyethyl]benzene
Cyclooctadiene
1,2-DIHYDRO-1,5,8-
TRIMETHYLNAPHTHALENE
1,4,6-trimethyl-1,2,3,4-tetralin
(1R,2S)-1-ethyl-2-methylcyclopropane
1-methyl-5-isopropenyl cyclohexene
DICHLOROANILINE
2,6-dimethyl-cyclohexanol
(2E)-3-ethylpenta-2,4-dien-1-ol
(9Z,12E)-octadeca-9,12-dienoic acid
methyl ester
ZINC01532096
Butylcyclobutane
isopulegone
NaPst
10Z,13Z-nonadecadienoic acid
panaxatriol
panaxydol
NSC692928
NSC 308879
WLN: QR DG
 α -cyperene
 α -copaene
(5S)-5-ethyloxolan-2-one
methyl palmitate
Hepanal
Ethylpalmitate
quercetin

Supplementary Table 2. 201 symbols of FFDS targets

ACHE	GABRA1	RELA	EGFR	VEGFA	CCND1	BCL2	FOS	EIF6	CASP9	PLAU
RB1	IL6	AHSA1	CASP3	TP63	ELK1	NFKBIA	PORCASP8	RAF1	PRKCA	
HIF1A	RUNX1T1	ERBB2	PPARG	ACACA	CYP3A4	CAV1	MYC	CYP1A1		
ICAM1	SELEVCAM1	PTGER3	BIRC5	DUOX2	NOS3	HSPB1	MGAM	CYP1B1		
CCNB1	ALOX5	GSTP1	NFE2L2	NQO1	PARP1	AHRPSMD3	SLC2A4	COL3A1		
DCAF5	NR1I3	CHEK2	HSF1	CRP	RUNX2	RASSF1	CTSD	IGFBP3	IGF2	
IRF1	ERBB3	PON1	DIO1	NPEPPS	HK2	RASA1	GSTM1	GSTM2		

Supplementary Table 3. 1,576 therapeutic targets for CHD and 471

therapeutic targets for hyperlipidemia

1,576 therapeutic targets for CHD	471 therapeutic targets for hyperlipidemia
APOE APOB LDLR LPA MTHFR	LDLR PPARG PPARA APOE LPL
PLA2G7 HNF1A TCF7L2 ZC3HC1	CETP APOB ANGPTL4 LEPR
ABCG5 DNAH11 CX3CR1 ACE MRAS	KLF14 PLTP TOMM40
LPL MMP3 PON1 CD36 IRS1	NECTIN2HP BCL3 ABCG5 AHR
VKORC1 CCDC92 ESR2 PLAU	DNAH11 ATP7B MACO1 VNN1
EDN1 MIR17HG MMP9	NR5A2 PEX11A NEIL1 TLR2
MACO1 CCL2 CCR5 CD40LG	FABP2 TNF CRP PCSK9 IL6 APOA5
MIF CDKN2B-AS1 ABCC9 CETP	GCGADIPOQ APOC3 APOA1 LPA
ABCA1 ALDH2 PHACTR1 PCSK9	LEP MTTP ACE GCKR LMNA
ABOKCNJ8 LIPCLOX ALOX5	SERPINE1 ANGPTL8 CD36
HMGCR IL6RTC21 ADAMTS7	ANGPTL3 SCD MTHFR ABCA1
PLPP3 SCARB1 PECAM1 LIPAFADS1	ADRB3 RBP4 LIPAIL10 IRS1 TLR4
SLC22A3 LPAL2 NR1H3 COL4A2	EHMT1 DPP4 GLP1R NOS3
MIA3 JCAD FADS2 SH2B3 AR	ALB PPARD RETN FGF21 CNR1
SMAD3 ADTRP ZPR1 CYP17A1	TCF7L2 USF1 CAV1 LIPE MYLIP
CELSR2 ABCG8 SMARCA4 FTO	NR3C1 LIPC REN GPT COG2 GH1
PROCR GALNT2 MTHFD1L GCKR	ENHO GCKPTPN1 CNBP CLOCK
ZFH3 UBE2Z BRAP KCTD10	ACLY ZGLP1 XPR1 MTOR
FLT1ANKS1A KCNJ11 ATP2B1	VCAM1 CPB2 SLC17A5 ALPP
CNNM2 WDR12 SVEP1 HHIPL1	ATRNL1 ATHS MIR122 PDLIM3
ALDH1A2 ZSCAN16-AS1	CCL27 SCARB1 IL1B NR1H3 IFNG
LINC00240 SLC17A4 ADAMTS9-AS2	HMGCR SOCS3 AR DGAT2 NAT10
TARID LINC01016 MYZAP CERT1	FADS1 GOT2 ASRGL1 APOC2
RAD50 LIPC-AS1 TSBP1-AS1	ESR1 ADRB2 RARRES2 APOM
LINC01339 NUTF2 HCG9	PON1 HNF1A FABP4 SREBF1
CDKN2A CDKN2B BTN3A3 BTN2A2	SLPI AGT SORT1 BUD13 LCAT
TOMM40 LINC02463 MECOM-	CHDH ST3GAL4 GGTL C5P STAP2
AS1 IGF2BP2 SLC17A3 CFTR HCP5	KRT16 CXCL12 GOLGA6A RXRA
TRAFFD1 MORF4L1 FILIP1L PLCD3	ACE2 ATXN2 IL18 RAPS N CCL2
KIF12 GLCC1 CHRNA3 CHRN B4	PTGDS IL6R PNPLA2 IL17A NR1I2
KLHL29 ZBED9 APOA5 ZNF831	MC4R SOD1 SOAT2 MTRR
COL11A2 MUCL3 ASZ1 CR1L	GGT2 MUSK ABCB1 ENPP1
CRP PLEKHA7 GLT1D1 CSK GCOM1	GGTLC3 PCSK1 NPY TPD52 NPY5R

CST3	NKX2-5	HJV	CYBA
CYP2C19	TTC39B	CYP21A2	SLC30A8
AGER	DNM2	AGT	AGTR1
ESR1	MECOM	ALB	F2
CABCOC1	KIF6	JAZF1	FHIT
PH3A	SMG6	CUX2	SIK3
SIRT1	ABL1	TTC41P	GABBR1
GABRB1	GATA4	HLA-DPA3	HPGDS
ANGPTL3	HECTD4	HNF1A-AS1	GSTM1
GSTT1	GRHL1	HFE	ZNRD1
HLA-A	HMOX1	HNF4A	HP
APOA1	APOA4	ICAM1	APOC3
HLA-V	IL1B	IL1RN	IL6
CXCL8	IL10	IL17A	IL18
ITGB3	ITPK1	ITPR3	LHFPL3
KCNQ1	UBE2Q2	P1	SFTA2
COL11A2	P1	LEP	TOMM5
LTA	MIR126	MIR146A	HCG18
HCG17	MEF2A	MMP1	MMP2
MPO	CATSPER2	P1	MTRMTRR
MYL2	PPP1R12B	NFKB1	NOS3
NOTCH2	OLR1	TNFRSF11B	SERPINE1
SERPINA5	ANGPTL4	POLK	GALNT7
PLA2G1B	PLA2G2A	PLCG1	SEMA5B
PON2	PPARA	PPARG	CDKAL1
DUS2	ULK4	CHDH	STK32B
MAML3	ZCCHC8	CARMIL1	POLR3B
RNF130	BCAP29	RETN	SLC12A9
PTGS2	SUGP1	REN	BDNF
SORT1	ATXN2	CXCL12	THADA
PCIF1	GPSM3	SELESEL	SLC39A8
DPEP2	DPEP3	ZSCAN31	SHBG
P2RY12	SKIV2L	SLC22A1	BTD
TGFB1	THBD	TLR4	TSPAN8
TNF	TP53	BP1	TRIO
DHFRP2	VDR	VEGFA	VWF
ZNF165	SLC30A3	CACNB2	CAD
TMEM231	NAA25	ACAD10	ZNRD1
ASP	DIAPH3	PLA2G6	NLR3C5
CMAHP	CMSS1	SRRM4	FNDC1
FRMD5	DNAJC5B	BAZ1B	CHRD1
FAM114A1	CD14	KL	ADIPOQ
LIPG	KIAA0319	F7	FGB
ALOX5AP	NPC1L1	CFH	IL1A
MIR155	PCYT1A	PLG	TBX20
GDF15	TRIB1	CITED2	CYP1A1
DECR1	F5	OR10A4	HSPD1
IFNG	ITGA2B	KDR	MIR499A
AMOK	CCL5	TBX5	CCR2
USF1	NLRP3	CYP2J2	F3
FBN1	MMRN1	GJA4	NR3C1
HMGB1	MIR21	MIR223	NPY
ABCB1	INSIG2	MLXIPL	TNFRSF11B
PIK3R1	GGTLC4P	FLAD1	RCBTB1
SOD2	LRP5	FTO	LINC01194
LTA	BRD2	VDR	POMC
TGFB1	PLG	PKD1	TP53
TXNIP	HGF	ACACA	FOXC2
AHSG	SLCO1B1	FOXO1	BTN2A1
AGTR1	CDKN2A	FLNA	FSHMD1A
SIRT1	ADACST3	CYP7A1	HPGDS
EPO	PLIN2	NPC1L1	GCGR
APOA2	ESR2	GGT1	ALDH2
AKT2	HNF4A	GPR119	THBS1
SHC1	SHBG	CYP2B6	SPARC
NOD2	SRI	CIDEC	TIMP4
SPP1	CYBB	CR1	TGFB2
CTSD	PLA2G7	CRABP2	SLC15A1
CTSG	CPT2	NRG4	ADAM17
SLC5A2	SLC2A4	CYP2B7	PSDC1
CYP2J2	SPRED2	ZBTB7C	PTX3
MIB1	MIR509-1	MIR518C	PTGS2
AKT1	BAD	BAAT	CHPT1
MAP2K1	MAPK7	SULF2	EDN1
UBL5	CCND1	SCP2	BGNCYP11B2
MSMO1	RENB	BP	ACSM3
AWAT1	BDNF	RORA	ROCK1
DBP	DECR1	SLC30A8	BCL2A1
F2	NR1H4	TRIM47	PRG4
SELENBP1	SIGLEC12	ZPR1	SGPL1
ANGPTL7	APLN	TRIB1	FSTL3
MBTPS1	LOC102723407	DGAT1	KCNK5
CAV3	LOC102724197	TIMD4	GGTLC1
RBM8A	MAFB	OSBPL2	BMS1
PIEZO1	RAPGEF5	CDKN2B-AS1	TBPL1
ALL2	MIR3659	ROCK2	FADS2
LIPG	ABCB6	KL	DNM1L
PIAS1	UBASH3B	XDHXBP1	VEGFA
CHI3L1	WDHD1	UCP3	MGLL
OSBPL10	TRPS1	TRPC5	C3
CCR5	COL4A1	TNNT1	SLCO6A1
COX8A	MIR34A	ZNF202	AOPEP
NCOA2	NCOA3	CAMP	MKKS
LPAL2	RN7SL263P	CALCR	HDAC11
SLC17A3	OGFOD3	SLC27A5	RHBDF2
CHPF	RIPK3	CADCPT1A	FAAH
MMP9	LTF	LTBR	ARNT
GPR162	GLRX	LRP2	GNB3
IFNL3	LOX	OR10A4	GPX1
GRN	FLVCR1	KLF15	LGALS1
ANPEP	IL37	MIR130A	MMP3
MME	NR3C2	MKI67	DNAJB9
NOX1	ARSA		

APOM CXCL16 TFPI CD40	SMAD2 MIR96 NAAA MIR33A
C20orf181 CERNA3 ADD1 APLNR	MIR27B MIR22 MIR195 MIR148A
FABP4 FLNA ALOX15 GNB3	MIR146AGSK3B LECT2 HLA-A
GP1BA GPX1 ISL1 ABCC6 KNG1	CXCL8 HMGB1 HMOX1 IL4 FOXA2
LEPR ARSD MPI MYH6	IL1AIGFALS HSD11B1 HSD17B13
NOTCH1 HSPA14 PON3 CCHCR1	HSPG2 IFNA13 HTR2C IFNA1
PPARD BCHE ACTB S100A12	IDH2 ID2 IRF2BP2 ANXA6 REPIN1
SELENBP1 KIF28P NAMPT	LCN2 APOA4 C1QL3
MTCO2P12 HPSE KIF2C	SERPINA13P UBIAD1 ANXA1 KCNH1
COL4A1 SLCO6A1 ADRA2B PLB1	MIA3 GSTK1 JAK2 ABCC6
ADRB2 FCGR3A ZFPM2 PLA2G15	HADHA INSR INPPL1 INS HCAR2
GATA6 FGF21 GC AMPD1	TMEM126B PODXL BCO1 SARM1
ANGPT2 HIF1A IGF1GSK1 LRP6	TBC1D9 PLCG2 TM6SF2 PLAT
COX2 MUSK ATM FOXP3	GGA3 MPRIP ACP1 PECAM1
MLXIPL PIK3CG PPIAAVP ACSS2	WVOX ENPP2 PASK IL23A
PTX3 RAPSN ACE2 RBP4	SIRT6 TREM1 SMG1 ACOT13
SELLSELPLG SOD1 TNFRSF1B	PRKAB1 PRKAA2 FABP1 PRKAA1
TP53 VPS51 YWHAZ FLAD1	PREP PTK2B FASN FBN2
ACCS CAT CBS HAND1 CBSL	TMEM132A DYM PPIAMRAS
PPARGC1A CHI3L1 CPB2 ADRB3	SCAP FAIM2 CCHCR1 SCLY
CYP2B6 CYP2C8 CYP11B2 CYP19A1	DCDC2 GALNT2 LDLRAP1 NM NF2
DBP EGFR EGR1 EPHX2 FABP2	NDUFS4 PTPN22 GATA3 NBN
FCGR3B FSHMD1A POU2F3 COPD	MYLK MYD88 MVK DAG1
GATA2 GDF1 GLP1R GSTM2	MTRBSCL2 MT1B MSRA CCN3
GUCY1A1 HGF HLA-DRB1	G6PC PDCFLT1 PCOS1 IPO11
HSPA1A APOC1 IFNA1 IFNA13	FMO3 SIK3 ABHD5 SIRT3
FAS IL16 ENHO LCN2 LGALS2	SERPINA5 PAX5 PAPP A NOX4
LGALS3 MIR17 MEFV MGP	PAEP OLR1 NUCB2 NRF1
NR3C2 MTTP GP6 PIK3CA PIK3CB	MPO
PIK3CD PITX2 UGT1A1 PPBP	
PSMA6 PTH HPSE2 S100B BHMT	
SREBF1 TBX1 TNFSF4 UCP2	
XRCC1 ZIC3CA2 SLC25A20	
CRELD1 FSD1 FSD1L PLA2G10	
PSRC1 APLN ABCG1 HDAC9	
ADAADAR KLF2 CLU ADH1C	
CNR1 CYP3A4 CYP4A11 CYP7A1	
DPP4 DSCAM RCAN1 ECE1	
AHRAHSG EPO EPRS1 ETS2	
FABP3 FCGR2A FGFR4 TBC1D9	
FN1 ANGPTL2 HEY2 DDAH2	
SMUG1 IL37 C5AR2 GPR162 GLUL	
BTBD8 GPT ANXA2 HLA-DQB1	
HSPA1B HTC2 APOA2 TNC	
C1QTNF9 NANOS3 PEAR1 LCAT	
LMNA MIRLET7C MIR143	
MIR145 MIR149 MIR206 MIR23A	
MIR34A ARSA MC4R MEF2C	
MMP12 NFATC1 NFE2L2 NODAL	

	NOS2	P2RY1	PAPPA	ADIPOR1
	ENPP1	PLTP	RNLS	PROC
	JPH3	PTGS1	HAMP	BAX ACTA2
	RARRES2	BCL2	RFC1	S100A9
	NOD2	BMP2	SLC5A2	SOD2
	SPP1	SREBF2	TBX2	TBX3
	TCN2	ACTC1	TERC	NR2F2
	TMSB4X	TNFRSF1A	TNNI3	C3
	POTEF	AVSD1	EHMT1	KMT2D
	CASP1	CASQ2	KALRN	F2RL3
	IL33	NEXN	CD28	HAND2 CD59
	NOS1AP	NAT2	HLP	ABCB6 PGR-
AS1	EBI3	TP53	COR1	CFDP1
	SLCO1B1			
	RN7SL263P	CES1	NES	UTS2
	CHD2	ADAMTS13	ATXN2L	H3P10
	TMEM170A	RBM45	COMT	ADM
	COX8A	KLF14	CRHCSF3	IL23R
	CTSS	ADRB1	DAB2IP	CYP1A2
	CYP2C9	CYP2E1	CYP3A5	DEFA1
	DHCR7	NQO1	DNTT	AGTR2
	EDNRA	EGR3	DAND5	EPAS1
	EPHX1	ERCC1	ERCC2	ETS1
	F2R	F10	F11	F13A1
	FBN2			CD93
	FOXO3	TAB2	FLOT2	DDAH1
	FXN	IL27	GABPA	GCAPOC1A
	PLA2G2D	GCK	GFAP	GJA5
	GCLC	ANGPT1	SETD2	GSTP1
	APC	APEX1	HSD11B1	HSPA2
	HSPA4	BRINP3	IGF2	IGFBP3
	CCN1			
	IL2	IL4	IL5	IL15
	INS			INSIG1
	MALAT1	ARG1	ACAT2	LAMP2
	CIMT	MIR122	MIR130A	MIR142
	MIR150	MIR210	MIR22	MIR31
	MIR34B	MIR93	SMAD2	MBL2
	MMP7	MMP8	ASGR1	MMP13
	COX1	MVK	NCAM1	NFKBIA
	NHSNNMT	NOS1	NPC1	NPPC
	ACR	MIR378A	MIR423	OGG1
	SERPINB2	IRX4	FCMTE1	INSIG2
	PCSK1	PDE4D	SERPINF1	PGF
	ARL15	FIGN	QRSL1	FCMTE2
	MESP1	MAPK3	BTNL2	SLC2A9
	B2M	STARD7	PTEN	MRTFA
	HOMEZ	TRIB3	MYL7	BCL2A1
	RENB	P	RFX1	GAS5
	ROS1			
	RXRA	S100A1	SCD	BGLAP
	SCN5A			
	CCL21	CXCL5	CX3CL1	SFRP4
	GMCL1	GMCL2	SHHSI	AIDA
	AGXT2	WNK1	BMP4	SLC6A4

BMPR1A	BMPR2	SOAT1	BRCA1
ST2	STAT3	TCP1	TFAP2B
TGFB2	THBS1	THBS2	TIMP1
TLR2	TNNT1	UBCVCAM1	VEGFC
VIM	BEST1	CXCR4	CUBN
SP6	SOX7	BUD13	FCN3
CAV1	SOCS1	IRS2	TNFSF14
TNFRSF6B	TNFRSF11A	PROM1	NR1I2
MGAM	SOCS3	SLC33A1	KLF4
NTN1	BCAR1	CLOCK	CD69
PCLAF	MVP	SCO2	CDH2
AKT3	HOTAIR	ZGLP1	MIR873
MIR365A	KLLN	AFA1	MIR1233-1
HOTTIP	PARP2	MIR4271	MIR2909
MIR3664	LINC01672	COMMD3	BMI1
MICOS10	NBL1	MIR4513	IL18BP
HIF1A-AS2	COX10-AS1	IFNG-AS1	CDH13
ATP6AP2	LPCAT3	SORBS3	RNF41
TSHZ1	ADAM10	MPHOSPH6	MPZL2
AKR1A1	MYL12B	NOD1	DLC1
ADARB1	YAP1	APOA1-AS	EIF3M
CAP1	H19-ICR	CEBPE	THRA1/BTR
ANP32B	CECR	CEL	MRPL28
ZRS	ERLIN1	MYL12A	TXNIP
POSTN	LEFTY1	CXCR6	EBP
CERS1	ARPP21	NEU3	NPFFR2
SUB1	LOC109280161	KCNQ1OT1	CHD1
CHD4	ESM1	WDR5	HNRNPUL1
BTN2A1	PTPRT	CAPN10	WDHD1
CHIT1	SLC2A6	IL17F	LINC02605
TMEM54	C1QTNF1	C1QTNF3	H3P9
H3P40	TNFRSF13C	CKMT2	LRRC3B
CMTM5	CYP2R1	CMA1	CCR7
ACKR2	DNAAF1	ADH1A	EARS2
ADH1B	COL1A1	COL3A1	COL6A1
OSR1	COMP	TAMM41	CORT
MAP3K8	CP	CPA3	CPE
CPS1	CR1	NKX2-6	DGKK
CRIP1	ADORA3	GATA5	PARP1
CACUL1	CSF1	CSF2	SERPINA12
PWAR1	NRG4	IL34	CSRP1
LYPD4	PTPRVP	CTF1	CTH
CTLA4	CTNNB1	ADRA2A	CTRB1
CTSB	CTSD	ERFE	CYBB
CYP1B1	CYP2C18	CYP2D6	SLC7A13
SPAAR	CYP27A1	AP2A2	DARS1
C16orf82	DEFA3	ASXL1	DHFR
DMBT1	DNAH8	DNMT1	JAG1
DTNA	EBF1	LPAR1	EFNA5
EGF	RMST		

ELANE	ZNF627	MARK2	AKT1
ERCC5	EXTL3	EZH2	F8 F9
F12	FAAH	FABP1	DLEU7 FCAR
FCGR1A	FCGR1B	FCGR2B	FCN2
SEMA3D	FEN1	FGF2	FGG MLXIP
SCAP	DAAM1	PALLD	KDM1A
MON2	FOXM1	FOXO1	GPD1L
ABRAXAS2	PMPCA	DICER1	SIRT4
SIRT3	FOLH1	NUP188	FOS
ARL2BP	PDSS1	BHMT2	IL17RA
SPESP1	ALOX15B	FRZB	ALPL
FUT3	GAD1	LMOD1	ARIH1
NIPBL	GALNT3	ASPM	SOSTDC1
TAS2R50	GAPDH	APPL1	TES GART
PTPN22	GAS6	KLHL3	GCGGCH1
GDF2	GREM1	GDF10	AMFR
HAVCR1	GGT1	AMH	B4GALT1
GH1GHRFETUB	GJB2	FOXP1	
B3GAT1	DKK3	PALD1	AGO2
PDCD4	GCLM	GLI1GLI3	GOT2
IFNL3	LINC00841	KANSL1	
METRNL	GPB1	TREML4	XKR6
SCAI	GRK4	GRK5	GPX3
FLVCR1	KLF15	GRIK4	NXT1
MYLIP	CTNNA3	GSR	GSTA1
GUCA1B	SENP1	GUK1	GUSB
PADI1	A1CF	ANXA1	HABP2
HAL	HAS2	HBG2	HDAC1 EHD3
HHEX	ACACA	HLA-DRB5	HLA-G
HMGB2	HMGA1	HNRNPA1	HOXA1
ACACB	HOXC9	HPCAL1	MMAB
SERPINA9	HSPA5	HSPA8	HSPB1
HSPB2	HSPE1	HSPG2	GPIHBP1
HCAR2	IRF8	ID2	GOLGA6A APOC2
IFNB1	APOC4	IFNGR2	APOD
IGF1R	IGFBP1	IGFBP4	IGFBP7
ACADS	LCE1A	IL1RAP	FASLG IL7
CXCR1	CXCR2	IL12B	IRF2BP2
IL15RA	TNFRSF9	ILK	AQP5 IDO1
ING1	CXCL10	AQP6	INSR
IRF3	IRF6	ITGA2	ITGAM ITPR1
JAK2	ACAT1	KLK1	KIF22
KRT8	SUMO4	C1QTNF12	C1QL3
LAG3	RPSA	LBP	LMAN1 LRP1
LRP2	LRPAP1	LSS	LTB LTBP1
ARNTL	MIRLET7	MIR132	MIR18A
MIR182	MIR184	MIR197	MIR19A
MIR19B1	MIR20A	MIR208A	MIR214
MIR221	MIR224	MIR23B	MIR25

MIR29C	MIR30C1	MIR30C2	MIR32
MIR96	SMAD1	SMAD7	MAFD2
MAG	STS	MAS1	CD46
ADAM11	MEOX2	METMFGE8	CXCL9
MAP3K11	ACHE	ASD1	MDD1
MMP14	ASIPOR13G1	MIR367	ASPA
MSRA	MT1B	MT2A	MTAP
MTHFD1	MYBMYBPC3	MYD88	
SERPINC1	MYO6	NAGLU	NBL1
NCLN	DUFAB1	NDUFS2	RERE
NEUROD1	NPPA	NPPB	NPR3
NT5E	ATP2B2	NTRK2	NTRK3
NUCB2	NUP98	MIR361	ATP4B
OGDH	OPA1	ZBTB21	OPRM1
OSM	OTCOXCT1	P4HB	PCSK6
DUOX2	NOX4	IL22	AK3 F11R PC
SOST	PCDH8	ASCC1	CPA4
CLEC1B	TLR7	CDK18	TLR8
WNT16	PDE3B	ISYNA1	PDGFA
SIRT6	IL23A	NBAS	RTRAF
CES1P1	SLC26A4	GHRL	RTKL1
ADA2	PF4V1	ACP1	PFKL
ATP5PF	SERPINA1	SERPINE2	
PIGFPIK3C2A	PKD1	PKP2	
PLA2G5	PLAGL1	PLAT	IL17D
HDL3	STX18	PLN	PLXNA1
PMAIP1	DUOX1	ACP5	RIPK4
PNN	TREM1	PORDGCR8	DLL4
POU5F1	TET2	PPICBCOR	CASZ1
MTARC2	NADSYN1	RCBTB1	FBXW7
IMPACT	MIR429	YOD1	CAMK2N1
PARL	SRGN	ITLN1	PRKAA1
OSGEP	PRKCE	KDM3A	SELENOS
PRKCH	ANGPTL8	MAPK8	CFC1
PRKY	PROS1	AZGP1	MAP3K7CL
MEPE	PRDM10	ACKR3	PSMD4
KMT5AP1	PSMD9	VANGL2	PTAFR
TAS2R38	AICDA	MIR433	HNP1
AS3MT	MIR146B	MIR503	NLN
KIDINS220	XPO5	MIB1	
RNF213	PTPN11	PTPRA	PTPRC
PTPRN2	NECTIN1	RAC1	RAF1
RASGRF2	RBL2	SENP2	OPN1LW
RELA	RLN1	BACH2	CPAT1
RPA1	RPN1	MIR483	MIR484
RYR2	RYR3	S100A8	SAA1
SCN7A	CCL17	CCL18	CCL19
CCL22	RNF123	HEATR6	CDH23
CENPK	CRLF2	SELENOP	KIF9

POU5F1P3	SRSF1	SRSF2	LMBR1
NFKBIZ	SFTPD	DCLRE1CSGCD	
SH3BGR	POU5F1P4	NDST4	
GORASP1	PDIA2	BMI1	
C12orf43	SLC2A3	GGTLC5P	BMP6
SLC8A1	SLC9A3	SLC12A3	SLC19A1
SMARCA2	SIGLEC1	SNRNP70	
SOD3	SOX9	SPARC	SPG7
SPINK1	SRC	TRIM21	SSB
STAT5A	STAT5B	SULT1E1	STIM1
STK11	BSG	SUV39H1	SYK
TAC1	ADAM17	TADA2A	TAGLN
KLF5	MIR421	MIR570	MIR574
MIR592	TCF15	MLXTERF1	TERT
TFR2	LEFTY2	TGM2	THBS4
THPO	THRA	TIMP2	TIMP4
C1QBP	TLR3	ACTG1	TM7SF2
TNFAIP3	TPM1	TRAF3	TRAF5
TRAF6	C3AR1	TRPC3	TRPS1
TTR	GGTLC3	DEFA1B	GGT2
TNFRSF4	TYMS	GGTLC4P	
SUMO1	UCP1	SCGB1A1	UMOD
KDM6A	VASP	VLDLR	WNT3
WNT5A	WNT11	GET1	CNBP
MIR765	CACNA1C	ZNF208	
ZNF217	LRP8	BSND	SCG2
METRNL	ST8SIA4	IRX1	NOX5
SLC52A2	SAP130	CALCA	ADIPOR2
SAP30L	GHSAGBL2	CALCR	STN1
ZNF606	CALM1	PDGFD	ADAM33
PNPLA3	CD276	CALM2	FGF23
COL18A1	CALM3	SETD7	
ST6GALNAC5	MIA	MKKS	CAMP
CAPG	SMC1A	USP9Y	AXIN2
SESN2	CRISPLD1	ZNF484	ESYT3
ROPN1L	TMPRSS13	SRPX	ARID5B
SARNP	SOAT2	MAP1LC3A	CASR
KIF2B	CNDP1	OFD1	AOPEP
MMP23B	ELP1	CYP4F2	APOL1
DOCK7	TSLP	MADD	KCNK5
VAMP8	BECN1	GALNT4	TNFSF13
TNFSF10	ACTN2	CREG1	IL18R1
CES2	CCN4	KAT2B	ARHGEF7
EIF2B5	AP1S2	PHOX2B	MBD2
HSPB3	ACVR1	HAP1	MCFD2
TBL1Y	LDB2	TBX18	FCGR2C
SMC3	NLRP12	IL1RL1	TIMD4
INTS4	XPR1	NAF1	IL32
CD163	GLP2R	MUC16	FAM189A2

CD86	OPN4	ABCG2	QKI	CD34
ATG5	ADAMTS4	ADAMTS1		
TBPL1	CHD1L	CD44	PRORP	
CD74	PCDHA9	RAPGEF5	TMEM94	
BMS1	ELMO1	SRGAP3	MFN2	
MAFB	FGF19	THOC1	RCE1	

Supplementary Table 4. 28 therapeutic targets that FFDS may act upon in patients with SCHD

ACACA	ALDH2	PON1	BDNF	CD36	PPARG	CRP	AHRNR3C1	GOT2	ESR1
PPIACTSD	VEGFA	IL6	NR3C2	INS	FABP1	CAV1	CALCR	NOS3	CETP
TLR4	VCAM1	LPL	LCAT	AR	ESR2				