

Disease	Disease-related targets
Hepatoprotection	<p>PKD1, SEC63, TP53, IL6, PRKCSH, TNF, PKHD1, GANAB, CTNNB1, PKD2, ALB, MARS1, MIR122, GPT, HFE, PNPLA3, NBAS, ABCB11, TSC2, PRMT7, SERPINA1, KRT18, APOE, APC, F2, MIR21, LRP5, ALG9, TERT, TGFB1, PHKA2, EGF, MET, HNF1A, IL10, CFTR, RTEL1, RTEL1-TNFRSF6B, PARN, LOC110806263, CFTR-AS1, TERC, LOC111674472, SFTPC, KIF21A, ABCB4, TMEM67, MUC5B, TRMU, LOC111674475, CC2D2A, NR1H4, SFTPA2, RPGRIP1L, HMOX1, CP, SFTPA1, LOC111674477, TUBB3, STN1, LOC113664106, PHKG2, ABCA3, PIK3CA, CCN2, RINT1, PYGL, INS, CXCL8, NLRP3, NOD2, IL10RA, IL1B, ADAM17, HLA-DRB1, GBA, GAA, APP, PSEN1, TLR4, CTLA4, LMNA, SNCA, MPZ, CRP, IL23R, IFNG, LRRK2, IL10RB, HLA-B, PMP22, NPC1, SQSTM1, EGFR, SMPD1, VWF, CCL2, PRNP, PRKN, MAPT, RET, MFN2, HLA-DQB1, PTPN22, RIPK1, CYBB, ATP7B, GDAP1, MPO, VCP, MEFV, TNFRSF1A, SH3TC2, RYR1, IL4, ABCA4, GLA, STAT3, NEFL, PARK7, IL17A, IL21, TLR2, TRPV4, ACE, LOC106627981, PTGS2, GJB1, ABCB1, FAS, ATG16L1, IBD5, MMP1, IL13, IL1RN, IL1A, IBD3, CCR6, DYNC1H1, IL2, IRF5, CYBA, ICAM1, G6PC1, VEGFA, GARS1, PPARG, AGL, GBE1, HLA-DQA1, ABCA1, PSAP, IAH1, NOS3, STAT1, JAK2, IBD2, PSEN2, IBD25, MIR146A, IBD7, NCF2, HEXA, FIG4, DNMT2, CCL3, AARS1, IBD21, IBD9, IBD6, PINK1, MTHFR, GFAP, IBD8, MMP9, IL18, SLC17A5, IBD16, IBD15, NAGLU, CCL5, IBD4, IBD18, MUC1, SOD1, PTEN, GDNF, IL2RA, IBD11, IBD12, IBD20, IBD22, IBD23, IBD24, IBD26, IBD27, TTR, IGHMBP2, MIF, PSTPIP1, APOA1, NPC2, CCR5, EDNRB, UMOD, IL12B, F8, SLC37A4, MT-ND1, PYGM, KIF1B, COL2A1, HBB, PRKCQ, IRGM, GATA3, EGR2, MIR155, AKT1, STAT4, HSPB1, FBN1, NCF1, ELANE, TNFRSF11A, NFKB1, CARD8, HTT, IL5, CCL11, KRAS, HLA-DPB1, TNFRSF11B, INF2, CEP290, TLR5, F5, LITAF, NDRG1, MME, FOXP3, ARPC1B, LAMP2, SERPINA3, NOS2, CCR1, AR, PON1, INAVA, LEP, NCF4, BDNF, HLA-A, BCKDHA, CD4, F9, POLG, PLP1, PRTN3, TNFRSF1B, ADIPOQ, MAPK1, CD40LG, 5-LOX, PRKCE, PDE4D, MMP12, LTA4H, PDE8, ROCK2, PIM2, CAML, AMP, GABRG2, PDE4B, ALOX, CTSK, ACAT1, FAAH, LCK, TN-C, S1PR1, C5AR1, HSP90A, PTGER4, IL21R, MAPKAPK2, CELA1, JAK-3, OPR, BDKRB2, CXCR3, GABRA5, H4R, SERT, GABRG3, LTR, ADRA2, PLA2G1B, VDR, MMP13, ADORA3, CB2, NR3C1, MOP, CDK1, ROCK1, GABRA2, GABRA1, OPRL1, IRAK-4, KIT, ERK2, SELL, PTGS1, CO5, CNTFR, PDE4A, GABRA3, SYK, PAR2, P2RX7, ABL, E-NPP2, GAR, ESRR, CTSS, CTSC, GSK-3B, CCR, VDDPCC, PTK6, GSK-3A, HTR1A, GABRB2, ESR2, ADRA1, SRC, FPR1, SERPINA6, ITK, PDE, PIK3CG, PGS, G-CSF-R, SLC22A5, AKR1C1, SLC22A6, P08183, CYP2C19, CYP2C9, EDNRA, HSPA5, RPS6KA3, NFKBIA, TNFAIP6, CASP1, CASP3, IKBKB, CCND1, MYC, PCNA, UGT1A6, NAT2, SLC22A8, ANXA1, CYP3A4, CYP3A5, PLAU, PRSS1, CSNK2A1, KLK6, PRSS2, PRSS3, ATOX1, ECI1, ST14, KLK1, CES2, DAO, SLCO2B1, SLC16A1, SLC15A1, KCNN4, CYP2D6, CYP2C8, CYP2B6, CYP2A6, CYP2E1, CYP3A7, NR1I2, HCAR2, SLCO1B1, SLCO1B3, SLCO1A2, NR0B1, ABCC2, ABCG2, CYP17A1, CYP1A1, CYP3A43, CYP4A11, CYP11B1, HSD11B2, HSD11B1, BCL2, THBD, PLAT, FABP2, ABCC4, ABCC1, SLC22A11, UGT1A1, UGT1A3, UGT1A9, UGT2B4, UGT2B7, PPARA, GP1BA, S100A7, AMACR, CYP1A2, SLCO1C1, CYP2C18, ALOX5, SCN4A, ASIC1, KCNQ2, KCNQ3, PLA2G2A, CYP19A1, SMO, DHFR, LRP2, SLC22A2, SERPINC1, F10, SELP, HPSE, FGFR4, FGF4, FGF19, FGFR1, FGF1, FGFR2, FGF2, PF4, HGF, SERPINA7, CYP11B2, SHBG, HSD3B1, CYP1B1, CYP51A1, LTB4R, TBXA2R, CASR, CLCNKA, SLC16A7, PLA2G4A, BCHE, LIPC, SP110, NPHP3, IFNL3, IMPDH1, IFNAR2, TLR9, HER2, DGAT1, SSTR, IMPDH, DDX58, SPTC, GLP1R, IFNA, TLR7, NKCR, HMGCR, IFNR, CMIR, DHODH, SSTR4, IFNA2, MMP2, IFN, IMPDH2, MMP3, IFNAR1, CYPA, PD-L1, PDXK, PDXP, ALPL, BRCA2, BRCA1, CDH1, ATM, MSH2, MSH6, CHEK2, PALB2, MLH1, PMS2, BRIP1, ERBB2, CDKN2A, NBN, MIR34A, BRAF, BARD1, POLE, SMAD4, STK11, MIR17, MIR221, C11orf65, CASP8, RAD51C, MUTYH, POLD1, RAD51D, RB1, MIR222, MIR200B, DICER1, MIR20A, AXIN2, TSC1, NF1, RAD51L3-RFFL, ESR1, MIR27A, MIR203A, MIR127, MIR143, EPCAM, MIR15A, NRAS, MIR145, SMARCA4, RAD50, MIR126, MIR141, MIR200C, FGFR3, HRAS, MIR125A, MIR205, MIR106B, MIR200A, TGFB2, MIR93, MIR10B, IGF2, MIR223</p>

Disease	Disease-related targets
Hepatoprotection (Continued)	CTNNA1, FANCC, MIR29A, PTCH1, RAD51, MIR31, CDKN1B, MIR18A, MLH3, CDK4, ALK, BMPR1A, FASLG, MIR19A, BAP1, MIR34C, XRCC2, MAP2K1, FH, MIR25, BLM, MRE11, MIR23B, MDM2, HOXB13, BAX, VHL, MIR210, HNF1B, MIRLET7C, MIR196A2, MEN1, MSH3, SMARCB1, MIR451A, EP300, AXIN1, PIK3R1, MIR34B, FLCN, MIR96, IGF2R, SDHB, MIR373, ERCC6, MIR30E, CDKN3, MIR195, KLF6, MIR429, PDGFRL, MIR22, MIRLET7D, AURKA, MIR29C, MIR182, SLC22A18, CDC73, DLC1, MIR181A1, XRCC3, MIR214, MIR204, MTOR, PMS1, SDHA, PTPN11, KRT8, MIRLET7G, FANCM, SDHD, MIR183, MIR23A, MIR191, AFP, MIR181B1, MIR224, ABRAXAS1, MSR1, MIR181A2, MT-CYB, IRF1, MIR107, MIR148A, MIRLET7B, GSTM1, MIR335, MIR16-1, MIR499A, PPM1D, FBXW7, EGFR-AS1, MIR192, LRRC56, EPHB2, H19, MIR199B, PDGFRA, PALLD, ARID1A, MIR140, KLLN, RNASEL, BUB1, MIR130A, CDKN1A, MIR24-2, MIR146B, SUFU, PHB, MIR193B, IGF1, WT1, GSTP1, MIR483, MIR206, MIR128-2, MIRLET7E, RAD54L, NOTCH1, ROS1, MIR181C, DCC, SDHC, MTUS1, ERCC1, MIR185, MIR486-1, SOX9, MIR137, MIRLET7A1, ERCC2, ZFH3, MIRLET7A3, BUB1B, MT-CO1, HIF1A, ELAC2, MCC, PPP2R1B, MIR150, MIR98, DLEC1, KRT19, MIR331, RB1CC1, POT1, GREM1, MIR133B, GPC3, FHIT, SMARCE1, MIR30D, IDH1, MIR26A1, MAD1L1, MIR100, JUN, MIR215, SMAD7, MIR181B2, SRD5A2, KDR, CAV1, TNFRSF10B, WWOX, CD274, MIR15B, HNF4A, DMD, CD44, NKX2-1, ENG, MT-CO2, HMMR, RAF1, MAP3K1, NOS1, AIFM1, CAT, DDB2, FARS2, AARS2, CARS2, XPC, GFM1, DDB1, POLR1C, ACADM, LPL, ACOX1, ABCD1, CD36, ELOVL4, FABP4, GYS2, GGT1, ACADVL, SREBF1, INSR, PEX6, MTPP, BSCL2, NR1H3, HSD17B4, DNAJB11, FAR1, SLC25A13, PEX1, YARS1, FADS1, PEX2, PEX5, PRX, FADS2, LDLR, FABP3, SERPINE1, FA2H, JAG1, RBP4, ASAH1, FARSB, HADH, ATP8B1, SCD, ABHD5, PEX12, PHYH, PEX10, HSD17B10, PNPLA2, CFH, BCKDHB, MT-ATP6, IRS1, ALG8, SBF2, GAREM2, PPARGC1A, EHHADH, PEX19, PRKAG2, PROM1, SLC25A20, PEX16, PEX13, PEX3, HAMP, RETN, APOC3, LRSAM1, PLA2G6, ABCG5, CYP27A1, LCAT, APBB1, BCS1L, PEX26, ANO5, TTN, FABP5, UCP2, DBT, CLN3, GALC, LEPR, DLD, SURF1, TF, ACACA, MKS1, HEXB, IFT140, SPP1, PEX14, PHKB, ELOVL6, MORC2, SOX10, SYNJ1, ASPA, ABCG8, MPV17, ALDH3A2, ACADS, RPL36A-HNRNP2, WDR19, SCN5A, AGT, RELA, FABP12, CLCN5, MTMR2, MLXIPL, SLC27A2, ETFDH, MT-ND5, PFKM, TARDBP, SLC2A1, GFER, COL4A1, ATP7A, GYS1, TJP2, ACSL4, FOS, SIRT1, TIMP1, XBP1, IRS2, MIR132, DDIT3, ADIPOR1, ADIPOR2, CYCS, TM6SF2, HP, ENPP1, NR1H2, GCKR, ALMS1, PEMT, CD55, SLC4A1, MAPK3, NPPA, GCNT2, C4A, F3, C3, RHD, AGTR1, PLA2G7, CETP, RUNX1, F7, CDC42, ACHE, MAPK10, ABL1, PRKCD, RHAG, PIK3CD, ITGB3, GNAS, ACKR1, EPO, KEL, RHCE, FLT3, GATA1, RHOA, AKT2, CXCR4, RAC1, PLG, CREBBP, CBL, PRKAA1, CR1, PROC, F12, SP1, CSF3, CREB1, BCR, PTPRC, SMAD3, G6PD, GYPC, IL3, AQP1, ABCB6, PRKAA2, FLNA, FGA, REN, BCL2L1, CFI, FN1, CD46, KNG1, C4B, GM2A, XIAP, RAG2, PRKCA, PPARG, ADRB2, STAT5B, CSF2, GATA2, ADA, A4GALT, SELE, CALR, SEMA7A, EDN1, TNFSF11, LIPE, PLAUR, PCSK9, F2R, PDGFRB, GCK, PRKAB1, PROS1, ITGB1, ITGAM, FLT1, PRKAR1A, IFNA1, CXCL12, RASA1, PRF1, SOS1, MAP2K2, RASGRP1, KCNQ1, BCAM, CD40, COL1A1, APOA5, PTK2, THPO, TCF7L2, CD59, STAT5A, PTK2B, LPA, HSP90AA1, ITGA2B, BSG, CASP9, LYN, ABO, MPL, KITLG, GNAQ, GHRL, SLC2A4, CFB, PAK1, RARA, SLC14A1, WAS, FUT3, KCNMA1, SHC1, NPPB, FYN, TGFBR1, F2RL1, BMP6, GSK3B, ADAMTS13, MAP3K7, NR3C2, CDK2, IKBKG, ANXA5, B3GALNT1, CD151, ELN, PLCG1, PTPN1, BTK, FCGR2A, TFRC, PLTP, AUP1, VCAM1, CFHR1, SGK1, CD28, ITGB2, ART4, KCNJ11, GYPA, ABCC8, NPM1, PRL, PARP1, RAG1, PECAM1, IGF1R, GNB3, ETV6, MYD88, F11, XK, DPP4, MYH7, MAP3K5, KMT2A, MAPK9, CEBPA, FGB, MMACHC, PRKCB, SLC34A1, ACTB, PIK3CB, GATA4, HSPG2, P2RY12, PHEX, PDX1, F13A1, TEK, ICAM4, PML, GRB2, SERPINF2, GCG, HDAC1, ZAP70, TNFSF10, HMGB1, GP6, ADCY10, APOA2, FLAD1, TRAF6, RPS6KB1, POMC, DBH, FOXO1

Disease	Disease-related targets
Brightening eyes	ABCA4, APOE, IL6, PKD1, GBA, NOD2, IL10, TNF, PAX6, LMNA, NPC1, SNCA, TP53, GAA, APP, TYR, MAPT, LRRK2, PRKN, MPZ, RET, CTLA4, PRNP, SMPD1, TGFB1, HLA-DRB1, PITX2, CEP290, RYR1, ATP7B, SQSTM1, FKRFP, GLA, VWF, LOC106627981, COL2A1, IL1B, RPE65, FBN1, GJB1, PSAP, VCP, CNGB3, ALB, BDNF, OCA2, IFNG, ABCA1, GDNF, VEGFA, BRAF, ACE, HLA-B, LCAT, HLA-DQB1, INS, PMP22, TTR, CACNA1F, TRPV4, EDNRB, PARK7, SOX10, HEXA, BEST1, PRPH2, KRAS, CYBB, CRB1, LRP5, CFH, RHO, ERCC6, PROM1, CFTR, GFAP, TLR4, CTNNA1, FAS, FIG4, PTEN, NR2E3, MUC1, PINK1, GUCY2D, CRP, USH2A, SAG, NF1, NOS3, SOD1, PTPN22, HTT, POLG, GARS1, AARS1, APOA1, ATXN2, FGFR3, G6PC1, NPC2, AKT1, HFE, SLC17A5, CXCL8, MPO, CCL2, BRCA2, GJB2, NAGLU, GJA1, CLN3, FGFR2, CCR6, HBB, MTF, TBCE, MMP1, PHYH, MT-ATP6, STAT3, EDN3, FOXC1, JAG1, FGFR1, ERCC2, SOX2, NOTCH1, EGFR, CYBA, MTHFR, PYGM, SERPINA1, RDH12, CYP1B1, ELOVL4, MIR21, PIK3CA, IL4, PHKA2, MC1R, F8, PPARG, IL13, APC, MIR34A, RBP4, CRYAA, OTX2, CRX, MIR17, NCF2, IGF1, PEX7, MMP9, NLRP3, PTPN11, OPTN, IL23R, FLG, LAMP2, RPL36A-HNRNPH2, IL2, NCF1, COL4A5, APOB, TNFRSF1A, PAX2, SMAD4, F2, ELN, MT-TL1, ICAM1, ATM, TGFB2, TARDBP, MEFV, ESR1, COL1A1, AR, TERT, MAPK1, BBS10, SERPINA3, ABCC6, JAK2, MAP2K1, INPP5E, EYS, IMPG2, CDKN2A, OFD1, IL1A, MME, SHH, TLR2, HRAS, TTN, SLC19A3, CACNA1A, HNF1B, IL17A, EGF, BSCL2, IL1RN, DSP, HLA-DQA1, KIT, MMP2, ADA2, KITLG, GALC, ERCC1, PON1, MECP2, NGF, CHD7, RLBP1, CLCN6, BRCA1, WT1, KCNQ1, PTCH1, MSH6, MSH2, MLH1, SMARCA4, KCNH2, STK11, FLNA, WRN, MYO7A, RECQL4, DICER1, ATRX, EYA1, NBN, NSD1, PALB2, ERCC8, CDH1, CACNA1C, COL3A1, HSPG2, CHEK2, TP63, PAX3, COL5A1, ERCC4, BAP1, RAF1, WFS1, EP300, IFIH1, TBX1, RB1, SLC2A1, TGFB2, SCN1A, SDHB, NPHS1, COL1A2, INSR, NRAS, PEX6, KCNE1, TCF4, SLC26A4, FMR1, SCN10A, SOS1, NIPBL, PEX1, TGFB1, AIRE, MED12, C3, GNAS, NOTCH2, IGF2, MUSK, ERCC5, MAP2K2, BCS1L, DHCR7, WAS, RAD51C, ADAMTS17, MUTYH, LIG4, IRF6, LRRC56, COL18A1, ALDH3A2, PLOD1, FGF10, TWNK, CFI, SALL4, KANSL1, POLR1C, UGT1A1, SETD2, GJB6, POLE, HPS5, HPS1, NRXN1, DOCK8, ACTB, PHOX2B, FOXP3, KAT6B, ATP7A, ARID1B, TREX1, WDPCP, WNT10A, ERCC3, STXBP1, CD40LG, POLD1, MT-CYB, PRKAR1A, CAV3, NDUFAF2, SIX6, CHAT, SAMHD1, ADRA2, ITGAL, ESRR, CHRM5, P2RY2, CYP2C9, SLCO1A2, SLCO2B1, NR3C1, CYP3A4, ABCB1, CHRM, AKR1B1, GJA8, CRYGD, GJA3, CRYBB2, EPHA2, MAF, HSF4, CRYGC, MIP, LOC100507443, CRYBB1, FYCO1, NHS, CRYAB, FTL, CRYBA1, CRYBB3, CRYBA4, BFSP2, LIM2, AGK, CRYGB, BFSP1, PITX3, GCNT2, FAM126A, CLPB, RAB3GAP2, CHMP4B, VIM, CRYGS, ABHD12, CTRCT37, PTGS1, PTGS2, H1R, A2M, IDE, CYP19A1, CYP3A5, CYP3A7, CYP2A6, CYP2B6, CYP2C8, CYP2C19, SERPINA6, HRH1, CYP2D6, SLC6A4, SLC6A2, SLC6A3, SLC22A2, SLC22A1, ANXA1, NOS2, NR0B1, ABCB11, ABCC2, ABCG2, CYP17A1, CYP1A1, CYP2E1, CYP3A43, CYP4A11, NR1H2, CYP11B1, HSD11B2, HSD11B1, SLC22A8, CXCR4, CD44, HMMR, NCAN, VCAN, C1QBP, HAPLN1, HAPLN3, HABP2, LAYN, STAB2, TNFAIP6, HABP4, ABCC5, LYVE1, SHBG, CYP11B2, HSD3B1, ADRA1A, ADRA2A, TOP2A, CYP1A2, SLC22A5, ABCC1, SLC22A6, SLC22A4, MC2R, HRH2, PLA2G1B, LTC4S, CD55, S100P, ABCC4, SLCO1C1, SLC22A11, UGT2B7, CYP2C18, SLCO1B1, UGT1A3, UGT1A9, UGT2B4, ALOX5, SCN4A, ASIC1, KCNQ2, KCNQ3, PLA2G2A, HTR2A, HTR7, DHFR, LRP2, AKR1D1, SRD5A2, PGD, UGT1A4, UGT2B10, NTSR2, CYSLTR1, CYSLTR2, PTGDR, FPR1, HSP90AA1, S100A1, S100A12, S100B, S100A13, S100A2, FMO1, FMO3, HRH3, NR1H3, HRH4, ADRA1B, MAOA, ADRA1D, SULT1A3, MAOB, DRD2, CHRM4, CHRM1, CHRM2, CHRM3, CALM1, ABCC3, GPR143, LAMB2, COL4A1, FASN