

### **General Cardiomyopathy**

DSC2, DSG2, DSP, LMNA, MYBPC3, MYH6, MYH7, PKP2, SCN5A, TNNI3, TNNT2, TTN

Emerging Genes: ABCC9, ACTA1, ACTC1, ACTN2, ALMS1, ANKRD1, BAG3, BRAF, CALR3, CASQ2, CAV3, CBL, COX15, CRYAB, CSRP3, DES, DMD, DNAJC19, DOLK, DTNA, EMD, EYA4, FHL1, FHL2, FKR, FKTN, FXN, GAA, GATAD1, GLA, HADHA, HFE, HRAS, ILK, JPH2, JUP, KLF10, KRAS, LAMA2, LAMA4, LAMP2, LDB3, MAP2K1, MAP2K2, MIB1, MURC, MYL2, MYL3, MYLK2, MYO6, MYO22, MYPN, NEXN, NPPA, NRAS, PDLIM3, PLN, PRDM16, PRKAG2, PTPN11, RAF1, RBM20, RYR2, SCN2B, SCO2, SDHA, SGCB, SGCD, SGCG, SHOC2, SLC25A4, SOS1, TAZ, TBX20, TCAP, TGFB3, TMEM43, TMPO, TNNC1, TPM1, TRIM63, TRPM4, TXNRD2, VCL

### **Hypertrophic Cardiomyopathy**

MYBPC3, MYH7, TNNI3, TNNT2

Emerging Genes: ACTA1, ACTC1, ACTN2, ANKRD1, BRAF, CALR3, CASQ2, CAV3, COX15, CRYAB, CSRP3, DES, FHL1, FXN, GAA, GLA, JPH2, KLF10, LAMP2, LDB3, MAP2K1, MAP2K2, MYH6, MYL2, MYL3, MYLK2, MYO6, MYO22, MYPN, NEXN, PDLIM3, PLN, PRKAG2, PTPN11, RAF1, SLC25A4, SOS1, TCAP, TNNC1, TPM1, TRIM63, TTN, VCL

### **Dilated Cardiomyopathy**

LMNA, MYH6, MYH7, SCN5A, TNNT2, TTN

Emerging Genes: ABCC9, ACTA1, ACTC1, ACTN2, ALMS1, ANKRD1, BAG3, CRYAB, CSRP3, DES, DMD, DNAJC19, DOLK, DSC2, DSG2, DSP, DTNA, EMD, EYA4, FKR, FKTN, GATAD1, HADHA, HFE, ILK, JUP, LAMA2, LAMA4, LAMP2, LDB3, MURC, MYBPC3, MYPN, NEXN, NPPA, PDLIM3, PKP2, PLN, PRDM16, RBM20, SDHA, SGCB, SGCD, SGCG, TAZ, TBX20, TCAP, TMPO, TNNC1, TNNI3, TPM1, TXNRD2, VCL

### **ARVC**

DSC2, DSG2, DSP, PKP2

Emerging Genes: CFT1, DES, JUP, LMNA, RYR2, TGFB3, TMEM43, TTN

### **Noonan Syndrome**

KRAS, PTPN11, RAF1, SOS1

Emerging Genes: BRAF, CBL, HRAS, MAP2K1, MAP2K2, NRAS, SHOC2,

### **Non-compaction cardiomyopathy**

MYBPC3, MYH7

Emerging Genes: ACTC1, CASQ2, DTNA, MIB1, PRDM16, TAZ, TNNT2, TPM1

### **Restrictive Cardiomyopathy**

TNNI3

Emerging Genes: ACTC1, DES, MYH7, MYL2, MYL3, MYPN, TNNT2, TPM1