**S2 Table. Relationships between the differentially expressed genes and hemodynamic and LV function parameters of ICM patients.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gene symbol** | **Ejection fraction** | **Fractional shortening** | **LVESD** | **LVEDD** | **Stroke volume** |
| *CADM1* | *r* = -0.534*P* = 0.091 | *r* = -0.553*P* = 0.078 | *r* = 0.517*P* = 0.103 | *r* = 0.460*P* = 0.154 | *r* = -0.340*P* = 0.336 |
| *CDH6* | *r* = -0.417*P* = 0.202 | *r* = -0.368*P* = 0.266 | *r* = -0.190*P* = 0.575 | *r* = -0.289*P* = 0.388 | *r* = -0.058*P* = 0.874 |
| *CDH13* | *r* = 0.283*P* = 0.399 | *r* = 0.368*P* = 0.265 | *r* = -0.171*P* = 0.615 | *r* = -0.096*P* = 0.778 | *r* = 0.526*P* = 0.116 |
| *CDH26* | *r* = -0.055*P* = 0.876 | *r* = -0.161*P* = 0.637 | *r* = -0.014*P* = 0.967 | *r* = -0.061*P* = 0.859 | *r* = -0.353*P* = 0.318 |
| *CLDN9* | *r* = -0.591*P* = 0.072 | *r* = -0.609*P* = 0.062 | *r* = 0.328*P* = 0.354 | *r* = 0.258*P* = 0.473 | *r* = -0.512*P* = 0.159 |
| *CLDN12* | *r* = 0.027*P* = 0.936 | *r* = 0.034*P* = 0.922 | *r* = 0.275*P* = 0.414 | *r* = 0.323*P* = 0.332 | *r* = 0.149*P* = 0.681 |
| *CTNNA3* | *r* = -0.028*P* = 0.936 | *r* = -0.057*P* = 0.869 | *r* = -0.092*P* = 0.788 | *r* = -0.118*P* = 0.729 | *r* = -0.195*P* = 0.589 |
| *CTNND2* | *r* = -0.515*P* = 0.102 | *r* = -0.412*P* = 0.209 | *r* = 0.181*P* = 0.595 | *r* = 0.088*P* = 0.798 | *r* = -0.316*P* = 0.374 |
| *DSC2* | *r* = -0.206*P* = 0.544 | *r* = -0.211*P* = 0.533 | *r* = 0.306*P* = 0.360 | *r* = 0.292*P* = 0.383 | *r* = -0.074*P* = 0.838 |
| *DSP* | *r* = 0.090*P* = 0.792 | *r* = 0.100*P* = 0.769 | *r* = -0.316*P* = 0.344 | *r* = -0.320*P* = 0.337 | *r* = -0.296*P* = 0.407 |
| *FHOD1* | *r* = 0.198*P* = 0.559 | *r* = 0.165*P* = 0.629 | *r* = 0.044*P* = 0.899 | *r* = 0.082*P* = 0.811 | *r* = -0.110*P* = 0.763 |
| *GJA3* | *r* = -0.117*P* = 0.732 | *r* = -0.100*P* = 0.769 | *r* = 0.113*P* = 0.741 | *r* = 0.114*P* = 0.738 | *r* = 0.015*P* = 0.967 |
| *GJC1* | *r* = 0.097*P* = 0.778 | *r* = 0.111*P* = 0.745 | *r* = 0.283*P* = 0.398 | *r* = 0.350*P* = 0.292 | *r* = 0.011*P* = 0.976 |
| *ITGA1* | *r* = 0.059*P* = 0.863 | *r* = 0.122*P* = 0.721 | *r* = -0.473*P* = 0.142 | *r* = -0.497*P* = 0.120 | *r* = -0.409*P* = 0.240 |
| *ITGA6* | *r* = 0.231*P* = 0.495 | *r* = 0.316*P* = 0.344 | *r* = -0.429*P* = 0.188 | *r* = -0.398*P* = 0.226 | *r* = 0.554*P* = 0.096 |
| *ITGA9* | *r* = 0.372*P* = 0.260 | *r* = 0.388*P* = 0.239 | *r* = -0.168*P* = 0.621 | *r* = -0.088*P* = 0.797 | *r* = 0.625*P* = 0.053 |
| *ITGAE* | *r* = -0.199*P* = 0.558 | *r* = -0.177*P* = 0.602 | *r* = 0.048*P* = 0.888 | *r* = 0.015*P* = 0.966 | *r* = 0.025*P* = 0.946 |
| *ITGAM* | *r* = -0.491*P* = 0.150 | *r* = -0.458*P* = 0.183 | *r* = 0.066*P* = 0.856 | *r* = -0.025*P* = 0.945 | *r* = -0.457*P* = 0.216 |
| *ITGAV* | *r* = 0.292*P* = 0.414 | *r* = 0.338*P* = 0.340 | *r* = -0.348*P* = 0.325 | *r* = -0.311*P* = 0.381 | *r* = 0.523*P* = 0.148 |
| *JAM2* | *r* = 0.260*P* = 0.440 | *r* = 0.311*P* = 0.352 | *r* = -0.548*P* = 0.081 | *r* = -0.541*P* = 0.086 | *r* = 0.544*P* = 0.104 |
| *JUP* | *r* = 0.109*P* = 0.750 | *r* = 0.144*P* = 0.672 | *r* = -0.049*P* = 0.885 | *r* = -0.023*P* = 0.945 | *r* = 0.101*P* = 0.782 |
| *LIMS1* | *r* = 0.130*P* = 0.704 | *r* = 0.200*P* = 0.556 | *r* = 0.020*P* = 0.954 | *r* = 0.074*P* = 0.830 | *r* = 0.358*P* = 0.309 |
| *PCDH7* | *r* = 0.031*P* = 0.932 | *r* = 0.023*P* = 0.950 | *r* = -0.274*P* = 0.444 | *r* = -0.287*P* = 0.422 | *r* = 0.246*P* = 0.524 |
| *PCDH12* | *r* = 0.176*P* = 0.627 | *r* = 0.234*P* = 0.516 | *r* = -0.471*P* = 0.169 | *r* = -0.453*P* = 0.188 | *r* = 0.542*P* = 0.132 |
| *PCDH15* | *r* = 0.112*P* = 0.744 | *r* = 0.033*P* = 0.924 | *r* = 0.083*P* = 0.809 | *r* = 0.088*P* = 0.796 | *r* = -0.121*P* = 0.738 |
| *PCDHB4* | *r* = 0.333*P* = 0.347 | *r* = 0.383*P* = 0.275 | *r* = -0.335*P* = 0.344 | *r* = -0.277*P* = 0.439 | *r* = 0.361*P* = 0.340 |
| *PCDHB6* | *r* = 0.258*P* = 0.461 | *r* = 0.284*P* = 0.453 | *r* = -0.266*P* = 0.457 | *r* = -0.128*P* = 0.724 | *r* = 0.374*P* = 0.321 |
| *PCDHB10* | *r* = 0.304*P* = 0.426 | *r* = 0.334*P* = 0.380 | *r* = -0.159*P* = 0.682 | *r* = -0.076*P* = 0.847 | *r* = 0.400*P* = 0.326 |
| *PCDHB15* | *r* = -0.068*P* = 0.843 | *r* = -0.191*P* = 0.574 | *r* = 0.534*P* = 0.056 | *r* = 0.541*P* = 0.052 | *r* = -0.454*P* = 0.188 |
| *PCDHGA2* | *r* = -0.307*P* = 0.422 | *r* = -0.278*P* = 0.469 | *r* = 0.443*P* = 0.232 | *r* = 0.436*P* = 0.241 | *r* = -0.435*P* = 0.282 |
| *PCDHGA3* | *r* = -0.793*P* = 0.004 | *r* = -0.822*P* = 0.002 | *r* = 0.867*P* = 0.001 | *r* = 0.781*P* = 0.005 | *r* = -0.826*P* = 0.003 |
| *PCDHGA5* | *r* = 0.160*P* = 0.638 | *r* = 0.197*P* = 0.562 | *r* = 0.182*P* = 0.591 | *r* = 0.268*P* = 0.426 | *r* = 0.321*P* = 0.366 |
| *PCDHGA7* | *r* = 0.361*P* = 0.340 | *r* = 0.284*P* = 0.459 | *r* = -0.161*P* = 0.679 | *r* = -0.114*P* = 0.771 | *r* = -0.100*P* = 0.813 |
| *PCDHGB3* | *r* = -0.448*P* = 0.194 | *r* = -0.503*P* = 0.138 | *r* = 0.609*P* = 0.062 | *r* = 0.563*P* = 0.090 | *r* = -0.579*P* = 0.102 |
| *PCDHGB7* | *r* = 0.265*P* = 0.459 | *r* = 0.309*P* = 0.384 | *r* = -0.538*P* = 0.109 | *r* = -0.539*P* = 0.108 | *r* = 0.146*P* = 0.708 |
| *PCDHGC3* | *r* = 0.065*P* = 0.868 | *r* = 0.053*P* = 0.893 | *r* = 0.202*P* = 0.602 | *r* = 0.255*P* = 0.508 | *r* = 0.421*P* = 0.299 |
| *PKP2* | *r* = -0.025*P* = 0.941 | *r* = 0.091*P* = 0.790 | *r* = -0.176*P* = 0.606 | *r* = -0.191*P* = 0.574 | *r* = 0.312*P* = 0.379 |
| *PKP4* | *r* = -0.055*P* = 0.873 | *r* = -0.108*P* = 0.752 | *r* = 0.322*P* = 0.334 | *r* = 0.325*P* = 0.329 | *r* = -0.179*P* = 0.621 |
| *PVRL3* | *r* = 0.013*P* = 0.972 | *r* = 0.056*P* = 0.878 | *r* = -0.067*P* = 0.854 | *r* = -0.038*P* = 0.916 | *r* = 0.484*P* = 0.187 |
| *SELP* | *r* = -0.304*P* = 0.363 | *r* = -0.373*P* = 0.259 | *r* = 0.146*P* = 0.668 | *r* = 0.076*P* = 0.825 | *r* = -0.549*P* = 0.100 |
| *VCL* | *r* = 0.022*P* = 0.949 | *r* = 0.013*P* = 0.971 | *r* = 0.409*P* = 0.211 | *r* = 0.456*P* = 0.159 | *r* = -0.091*P* = 0.803 |
| *VCAM1* | *r* = -0.379*P* = 0.251 | *r* = -0.390*P* = 0.236 | *r* = 0.008*P* = 0.981 | *r* = -0.065*P* = 0.849 | *r* = -0.238*P* = 0.507 |

LV, left ventricular; ICM, ischemic cardiomyopathy; LVESD, left ventricular end-systolic diameter; LVEDD, left ventricular end-diastolic diameter.