

Heatmap visualization showing the relationship between various genes (Y-axis) and a set of samples (X-axis). The color scale ranges from red (low expression) to blue (high expression). The genes listed on the Y-axis include: *CDKN1A*, *CDKN1B*, *CDKN1C*, *CDKN1D*, *CDKN1E*, *CDKN1F*, *CDKN1G*, *CDKN1H*, *CDKN1I*, *CDKN1J*, *CDKN1K*, *CDKN1L*, *CDKN1M*, *CDKN1N*, *CDKN1O*, *CDKN1P*, *CDKN1Q*, *CDKN1R*, *CDKN1S*, *CDKN1T*, *CDKN1U*, *CDKN1V*, *CDKN1W*, *CDKN1X*, *CDKN1Y*, *CDKN1Z*, *CDKN1AA*, *CDKN1AB*, *CDKN1AC*, *CDKN1AD*, *CDKN1AE*, *CDKN1AF*, *CDKN1AG*, *CDKN1AH*, *CDKN1AI*, *CDKN1AJ*, *CDKN1AK*, *CDKN1AL*, *CDKN1AM*, *CDKN1AN*, *CDKN1AO*, *CDKN1AP*, *CDKN1AQ*, *CDKN1AR*, *CDKN1AS*, *CDKN1AT*, *CDKN1AU*, *CDKN1AV*, *CDKN1AW*, *CDKN1AX*, *CDKN1AY*, *CDKN1AZ*, *CDKN1BA*, *CDKN1BB*, *CDKN1BC*, *CDKN1BD*, *CDKN1BE*, *CDKN1BF*, *CDKN1BG*, *CDKN1BH*, *CDKN1BI*, *CDKN1BJ*, *CDKN1BK*, *CDKN1BL*, *CDKN1BM*, *CDKN1BN*, *CDKN1BO*, *CDKN1BP*, *CDKN1BQ*, *CDKN1BR*, *CDKN1BS*, *CDKN1BT*, *CDKN1BU*, *CDKN1BV*, *CDKN1BW*, *CDKN1BX*, *CDKN1BY*, *CDKN1BZ*, *CDKN1CA*, *CDKN1CB*, *CDKN1CC*, *CDKN1CD*, *CDKN1CE*, *CDKN1CF*, *CDKN1CG*, *CDKN1CH*, *CDKN1CI*, *CDKN1CJ*, *CDKN1CK*, *CDKN1CL*, *CDKN1CM*, *CDKN1CN*, *CDKN1CO*, *CDKN1CP*, *CDKN1CQ*, *CDKN1CR*, *CDKN1CS*, *CDKN1CT*, *CDKN1CU*, *CDKN1CV*, *CDKN1CW*, *CDKN1CX*, *CDKN1CY*, *CDKN1CZ*, *CDKN1DA*, *CDKN1DB*, *CDKN1DC*, *CDKN1DD*, *CDKN1DE*, *CDKN1DF*, *CDKN1DG*, *CDKN1DH*, *CDKN1DI*, *CDKN1DJ*, *CDKN1DK*, *CDKN1DL*, *CDKN1DM*, *CDKN1DN*, *CDKN1DO*, *CDKN1DP*, *CDKN1DQ*, *CDKN1DR*, *CDKN1DS*, *CDKN1DT*, *CDKN1DU*, *CDKN1DV*, *CDKN1DW*, *CDKN1DX*, *CDKN1DY*, *CDKN1DZ*, *CDKN1EA*, *CDKN1EB*, *CDKN1EC*, *CDKN1ED*, *CDKN1EE*, *CDKN1EF*, *CDKN1EG*, *CDKN1EH*, *CDKN1EI*, *CDKN1EJ*, *CDKN1EK*, *CDKN1EL*, *CDKN1EM*, *CDKN1EN*, *CDKN1EO*, *CDKN1EP*, *CDKN1EQ*, *CDKN1ER*, *CDKN1ES*, *CDKN1ET*, *CDKN1EU*, *CDKN1EV*, *CDKN1EW*, *CDKN1EX*, *CDKN1EY*, *CDKN1EZ*, *CDKN1FA*, *CDKN1FB*, *CDKN1FC*, *CDKN1FD*, *CDKN1FE*, *CDKN1FF*, *CDKN1FG*, *CDKN1FH*, *CDKN1FI*, *CDKN1FJ*, *CDKN1FK*, *CDKN1FL*, *CDKN1FM*, *CDKN1FN*, *CDKN1FO*, *CDKN1FP*, *CDKN1FQ*, *CDKN1FR*, *CDKN1FS*, *CDKN1FT*, *CDKN1FU*, *CDKN1FV*, *CDKN1FW*, *CDKN1FX*, *CDKN1FY*, *CDKN1FZ*, *CDKN1GA*, *CDKN1GB*, *CDKN1GC*, *CDKN1GD*, *CDKN1GE*, *CDKN1GF*, *CDKN1GG*, *CDKN1GH*, *CDKN1GI*, *CDKN1GJ*, *CDKN1GK*, *CDKN1GL*, *CDKN1GM*, *CDKN1GN*, *CDKN1GO*, *CDKN1GP*, *CDKN1GQ*, *CDKN1GR*, *CDKN1GS*, *CDKN1GT*, *CDKN1GU*, *CDKN1GV*, *CDKN1GW*, *CDKN1GX*, *CDKN1GY*, *CDKN1GZ*, *CDKN1HA*, *CDKN1HB*, *CDKN1HC*, *CDKN1HD*, *CDKN1HE*, *CDKN1HF*, *CDKN1HG*, *CDKN1HH*, *CDKN1HI*, *CDKN1HJ*, *CDKN1HK*, *CDKN1HL*, *CDKN1HM*, *CDKN1HN*, *CDKN1HO*, *CDKN1HP*, *CDKN1HQ*, *CDKN1HR*, *CDKN1HS*, *CDKN1HT*, *CDKN1HU*, *CDKN1HV*, *CDKN1HW*, *CDKN1HX*, *CDKN1HY*, *CDKN1HZ*, *CDKN1IA*, *CDKN1IB*, *CDKN1IC*, *CDKN1ID*, *CDKN1IE*, *CDKN1IF*, *CDKN1IG*, *CDKN1IH*, *CDKN1II*, *CDKN1IJ*, *CDKN1IK*, *CDKN1IL*, *CDKN1IM*, *CDKN1IN*, *CDKN1IO*, *CDKN1IP*, *CDKN1IQ*, *CDKN1IR*, *CDKN1IS*, *CDKN1IT*, *CDKN1IU*, *CDKN1IV*, *CDKN1IW*, *CDKN1IX*, *CDKN1IY*, *CDKN1IZ*, *CDKN1JA*, *CDKN1JB*, *CDKN1JC*, *CDKN1JD*, *CDKN1JE*, *CDKN1JF*, *CDKN1JG*, *CDKN1JH*, *CDKN1JI*, *CDKN1JJ*, *CDKN1JK*, *CDKN1JL*, *CDKN1JM*, *CDKN1JN*, *CDKN1JO*, *CDKN1JP*, *CDKN1JQ*, *CDKN1JR*, *CDKN1JS*, *CDKN1JT*, *CDKN1JU*, *CDKN1JV*, *CDKN1JW*, *CDKN1JX*, *CDKN1JY*, *CDKN1JZ*, *CDKN1KA*, *CDKN1KB*, *CDKN1KC*, *CDKN1KD*, *CDKN1KE*, *CDKN1KF*, *CDKN1KG*, *CDKN1KH*, *CDKN1KI*, *CDKN1KJ*, *CDKN1KK*, *CDKN1KL*, *CDKN1KM*, *CDKN1KN*, *CDKN1KO*, *CDKN1KP*, *CDKN1KQ*, *CDKN1KR*, *CDKN1KS*, *CDKN1KT*, *CDKN1KU*, *CDKN1KV*, *CDKN1KW*, *CDKN1KX*, *CDKN1KY*, *CDKN1KZ*, *CDKN1LA*, *CDKN1LB*, *CDKN1LC*, *CDKN1LD*, *CDKN1LE*, *CDKN1LF*, *CDKN1LG*, *CDKN1LH*, *CDKN1LI*, *CDKN1LJ*, *CDKN1LK*, *CDKN1LL*, *CDKN1LM*, *CDKN1LN*, *CDKN1LO*, *CDKN1LP*, *CDKN1LQ*, *CDKN1LR*, *CDKN1LS*, *CDKN1LT*, *CDKN1LU*, *CDKN1LV*, *CDKN1LW*, *CDKN1LX*, *CDKN1LY*, *CDKN1LZ*, *CDKN1MA*, *CDKN1MB*, *CDKN1MC*, *CDKN1MD*, *CDKN1ME*, *CDKN1MF*, *CDKN1MG*, *CDKN1MH*, *CDKN1MI*, *CDKN1MJ*, *CDKN1MK*, *CDKN1ML*, *CDKN1MN*, *CDKN1MO*, *CDKN1MP*, *CDKN1MQ*, *CDKN1MR*, *CDKN1MS*, *CDKN1MT*, *CDKN1MU*, *CDKN1MV*, *CDKN1MW*, *CDKN1MX*, *CDKN1MY*, *CDKN1MZ*, *CDKN1NA*, *CDKN1NB*, *CDKN1NC*, *CDKN1ND*, *CDKN1NE*, *CDKN1NF*, *CDKN1NG*, *CDKN1NH*, *CDKN1NI*, *CDKN1NJ*, *CDKN1NK*, *CDKN1NL*, *CDKN1NM*, *CDKN1NO*, *CDKN1NP*, *CDKN1NQ*, *CDKN1NR*, *CDKN1NS*, *CDKN1NT*, *CDKN1NU*, *CDKN1NV*, *CDKN1NW*, *CDKN1NX*, *CDKN1NY*, *CDKN1NZ*, *CDKN1OA*, *CDKN1OB*, *CDKN1OC*, *CDKN1OD*, *CDKN1OE*, *CDKN1OF*, *CDKN1OG*,

This image is a 1000x1000 pixel grid of random noise, appearing as a dense pattern of black and white pixels. It contains no discernible text or figures.

Heatmap showing the expression of 22 genes in Control and IPAH groups. The y-axis lists the genes, and the x-axis shows the groups. The color scale indicates expression levels from 2 (red) to -2 (blue).

Gene	Control	IPAH
ABJ1464.4	2.0	2.0
AFU2220.1	2.0	2.0
AAC76588.1	2.0	2.0
AC018632.1	2.0	2.0
A0H1154.1	2.0	2.0
ABM07221.1	2.0	2.0
CA20759.1	2.0	2.0
AC021866.1	2.0	2.0
AAC30497.1	2.0	2.0
AC055529.1	2.0	2.0
CEK4993.1	2.0	2.0
AFU74120.1	2.0	2.0
ABR42311.1	2.0	2.0
ABR3931.1	2.0	2.0
AFJ_7788.1	2.0	2.0
AHF12040.1	2.0	2.0
ACD04752.1	2.0	2.0
ACD04496.1	2.0	2.0
ACD3888.1	2.0	2.0
AC004668.1	2.0	2.0
ACU90700.1	2.0	2.0
ABR3446.1	2.0	2.0
AFU78163.1	2.0	2.0
ACV95658.1	2.0	2.0
AQD73293.1	2.0	2.0
CAB8473.1	2.0	2.0
AKD7326.1	2.0	2.0
AAD75813.1	2.0	2.0
AAD76237.1	2.0	2.0
AAD79109.1	2.0	2.0
ADV82861.1	2.0	2.0
ACE5486.1	2.0	2.0
ADDP1962.1	2.0	2.0
AQD79173.1	2.0	2.0
AAD77539.1	2.0	2.0
AAD79177.1	2.0	2.0
AAD77598.1	2.0	2.0
CDD2983.1	2.0	2.0
AAD78004.1	2.0	2.0
AQD7219.1	2.0	2.0
AAO62676.1	2.0	2.0
AAU1123.1	2.0	2.0