**Supplementary File 4. The effects of cyclamic acid on activity and proliferation of HRPECs.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Group** | **Mean±SEM (%)** | **Comparing group *P* value** |
| Cell activity (24h) |

|  |
| --- |
| Con |
| DMSO |
| Cur |
| C-10 |
| C-20 |
| C-30 |
| C-40 |

 |

|  |
| --- |
| 1.064 ± 0.034 |
| 0.996 ± 0.037 |
| 0.740 ± 0.048 |
| 1.055 ± 0.042 |
| 1.020 ± 0.024 |
| 0.479 ± 0.020 |
| 0.214 ± 0.004 |

 |

|  |
| --- |
| Con vs DMSO |
| DMSO vs Cur |
| C-10 vs Con |
| C-20 vs Con |
| C-30 vs Con |
| C-40 vs Con |
| C-10 vs Cur |
| C-20 vs Cur |
| C-30 vs Cur |
| C-40 vs Cur |

 |

|  |
| --- |
| 0.222 |
| 0.006 |
| 0.873 |
| 0.326 |
| 0.000 |
| 0.000 |
| 0.003 |
| 0.002 |
| 0.002 |
| 0.000 |

 |
| Cell activity (48h) |

|  |
| --- |
| Con |
| DMSO |
| Cur |
| C-10 |
| C-20 |
| C-30 |
| C-40 |

 |

|  |
| --- |
| 1.611 ± 0.022 |
| 1.534 ± 0.030 |
| 0.863 ± 0.031 |
| 1.433 ± 0.028 |
| 1.143 ± 0.043 |
| 0.356 ± 0.023 |
| 0.225 ± 0.003 |

 |

|  |
| --- |
| Con vs DMSO |
| DMSO vs Cur |
| C-10 vs Con |
| C-20 vs Con |
| C-30 vs Con |
| C-40 vs Con |
| C-10 vs Cur |
| C-20 vs Cur |
| C-30 vs Cur |
| C-40 vs Cur |

 |

|  |
| --- |
| 0.084 |
| 0.000 |
| 0.003 |
| 0.000 |
| 0.000 |
| 0.000 |
| 0.000 |
| 0.002 |
| 0.000 |
| 0.000 |

 |
| Inhibition rate (24h) |

|  |
| --- |
| Cur |
| C-10 |
| C-20 |
| C-30 |
| C-40 |

 |

|  |
| --- |
| 16.335 ± 0.499 |
| 11.529 ± 0.247 |
| 16.591 ± 0.708 |
| 21.329 ± 0.870 |
| 28.750 ± 1.249 |

 |

|  |
| --- |
| C-10 vs Cur |
| C-20 vs Cur |
| C-30 vs Cur |
| C-40 vs Cur |

 |

|  |
| --- |
| 0.001 |
| 0.783 |
| 0.008 |
| 0.001 |

 |
| Inhibition rate (48h) |

|  |
| --- |
| Cur |
| C-10 |
| C-20 |
| C-30 |
| C-40 |

 |

|  |
| --- |
| 17.331 ± 0.543 |
| 13.468 ± 0.252 |
| 21.462 ± 0.485 |
| 22.061 ± 1.053 |
| 33.937 ± 0.356 |

 |

|  |
| --- |
| C-10 vs Cur |
| C-20 vs Cur |
| C-30 vs Cur |
| C-40 vs Cur |

 |

|  |
| --- |
| 0.003 |
| 0.005 |
| 0.016 |
| 0.000 |

 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Group** | **Mean±SEM (%)** |  **Comparing group *P* value** |
| Cell activity (24h) |

|  |
| --- |
| Con |
| DMSO |
| Cur |
| H-40 |
| H-80 |
| H-120 |
| H-160 |

 |

|  |
| --- |
| 0.819 ± 0.038 |
| 0.788 ± 0.021 |
| 0.596 ± 0.026 |
| 0.813 ± 0.043 |
| 0.754 ± 0.025 |
| 0.736 ± 0.013 |
| 0.735 ± 0.022 |

 |

|  |
| --- |
| Con vs DMSO |
| DMSO vs Cur |
| H-40 vs DMSO |
| H-80 vs DMSO |
| H-120 vs DMSO |
| H-160 vs DMSO |
| H-40 vs Cur |
| H-80 vs Cur |
| H-120 vs Cur |
| H-160 vs Cur |

 |

|  |
| --- |
| 0.503 |
| 0.001 |
| 0.925 |
| 0.203 |
| 0.085 |
| 0.105 |
| 0.005 |
| 0.004 |
| 0.003 |
| 0.006 |

 |
| Cell activity (48h) |

|  |
| --- |
| Con |
| DMSO |
| Cur |
| H-40 |
| H-80 |
| H-120 |
| H-160 |

 |

|  |
| --- |
| 1.938 ± 0.016 |
| 1.930 ± 0.059 |
| 1.189 ± 0.122 |
| 1.984 ± 0.091 |
| 1.935 ± 0.021 |
| 1.913 ± 0.100 |
| 1.900 ± 0.071 |

 |

|  |
| --- |
| Con vs DMSO |
| DMSO vs Cur |
| H-40 vs DMSO |
| H-80 vs DMSO |
| H-120 vs DMSO |
| H-160 vs DMSO |
| H-40 vs Cur |
| H-80 vs Cur |
| H-120 vs Cur |
| H-160 vs Cur |

 |

|  |
| --- |
| 0.900 |
| 0.002 |
| 0.638 |
| 0.907 |
| 0.287 |
| 0.622 |
| 0.002 |
| 0.001 |
| 0.004 |
| 0.002 |

 |
| Inhibition rate (24h) |

|  |
| --- |
| Cur |
| H-40 |
| H-80 |
| H-120 |
| H-160 |

 |

|  |
| --- |
| 13.002 ± 2.274 |
| 8.122 ± 1.286 |
| 8.796 ± 1.238 |
| 11.714 ± 2.519 |
| 13.074 ± 0.865 |

 |

|  |
| --- |
| H-40 vs Cur |
| H-80 vs Cur |
| H-120 vs Cur |
| H-160 vs Cur |

 |

|  |
| --- |
| 0.135 |
| 0.180 |
| 0.724 |
| 0.978 |

 |
| Inhibition rate (48h) |

|  |
| --- |
| Cur |
| H-40 |
| H-80 |
| H-120 |
| H-160 |

 |

|  |
| --- |
| 14.649 ± 0.820 |
| 9.319 ± 1.254 |
| 11.997 ± 2.306 |
| 13.426 ± 1.153 |
| 15.513 ± 0.169 |

 |

|  |
| --- |
| H-40 vs Cur |
| H-80 vs Cur |
| H-120 vs Cur |
| H-160 vs Cur |

 |

|  |
| --- |
| 0.024 |
| 0.210 |
| 0.436 |
| 0.361 |

 |

The effects of hyodeoxycholic acid on activity and proliferation of hRPE cells

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Group** | **Mean±SEM (%)** |  **Comparing group *P* value** |
| Cell activity (24h) |

|  |
| --- |
| Con |
| DMSO |
| Cur |
| L-25 |
| L-50 |
| L-75 |
| L-100 |

 |

|  |
| --- |
| 0.896 ± 0.018 |
| 0.840 ± 0.030 |
| 0.676 ± 0.012 |
| 0.873 ± 0.011 |
| 0.857 ± 0.038 |
| 0.856 ± 0.028 |
| 0.854 ± 0.027 |

 |

|  |
| --- |
| Con vs DMSO |
| DMSO vs Cur |
| L-25 vs DMSO |
| L-50 vs DMSO |
| L-75 vs DMSO |
| L-100 vs DMSO |
| L-25 vs Cur |
| L-50 vs Cur |
| L-75 vs Cur |
| L-100 vs Cur |

 |

|  |
| --- |
| 0.542 |
| 0.002 |
| 0.391 |
| 0.276 |
| 0.305 |
| 0.250 |
| 0.000 |
| 0.004 |
| 0.001 |
| 0.001 |

 |
| Cell activity (48h) |

|  |
| --- |
| Con |
| DMSO |
| Cur |
| L-25 |
| L-50 |
| L-75 |
| L-100 |

 |

|  |
| --- |
| 1.507 ± 0.017 |
| 1.515 ± 0.028 |
| 0.972 ± 0.023 |
| 1.518 ± 0.016 |
| 1.497 ± 0.023 |
| 1.490 ± 0.016 |
| 1.475 ± 0.070 |

 |

|  |
| --- |
| Con vs DMSO |
| DMSO vs Cur |
| L-25 vs DMSO |
| L-50 vs DMSO |
| L-75 vs DMSO |
| L-100 vs DMSO |
| L-25 vs Cur |
| L-50 vs Cur |
| L-75 vs Cur |
| L-100 vs Cur |

 |

|  |
| --- |
| 0.821 |
| 0.000 |
| 0.644 |
| 0.721 |
| 0.495 |
| 0.666 |
| 0.000 |
| 0.000 |
| 0.000 |
| 0.001 |

 |
| Inhibition rate (24h) |

|  |
| --- |
| Cur |
| L-25 |
| L-50 |
| L-75 |
| L-100 |

 |

|  |
| --- |
| 13.546 ± 0.65 |
| 12.026 ± 0.403 |
| 13.121 ± 0.604 |
| 15.364 ± 0.391 |
| 16.289 ± 1.079 |

 |

|  |
| --- |
| L-25 vs Cur |
| L-50 vs Cur |
| L-75 vs Cur |
| L-100 vs Cur |

 |

|  |
| --- |
| 0.105 |
| 0.646 |
| 0.065 |
| 0.091 |

 |
| Inhibition rate (48h) |

|  |
| --- |
| Cur |
| L-25 |
| L-50 |
| L-75 |
| L-100 |

 |

|  |
| --- |
| 13.863 ± 0.485 |
| 14.707 ± 2.193  |
| 16.255 ± 0.988 |
| 18.298 ± 1.362 |
| 20.432 ± 1.841 |

 |

|  |
| --- |
| L-25 vs Cur |
| L-50 vs Cur |
| L-75 vs Cur |
| L-100 vs Cur |

 |

|  |
| --- |
| 0.726 |
| 0.095 |
| 0.037 |
| 0.026 |

 |

The effects of L-tryptophanamide on activity and proliferation of HRPECs

The effects of O-Phosphorylethanolamine on activity and proliferation of HRPECs

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Group** | **Mean±SEM (%)** |  **Comparing group *P* value** |
| Cell activity (24h) |

|  |
| --- |
| Con |
| DMSO |
| Cur |
| O-5 |
| O-10 |
| O-15 |
| O-20 |

 |

|  |
| --- |
| 0.958 ± 0.018 |
| 1.002 ± 0.033 |
| 0.742 ± 0.019 |
| 1.051 ± 0.018 |
| 1.058 ± 0.035 |
| 1.064 ± 0.011 |
| 1.109 ± 0.026 |

 |

|  |
| --- |
| Con vs DMSO |
| DMSO vs Cur |
| O-5 vs Con |
| O-10 vs Con |
| O-15 vs Con |
| O-20 vs Con |
| O-5 vs Cur |
| O-10 vs Cur |
| O-15 vs Cur |
| O-20 vs Cur |

 |

|  |
| --- |
| 0.286 |
| 0.001 |
| 0.010 |
| 0.045 |
| 0.002 |
| 0.003 |
| 0.000 |
| 0.000 |
| 0.000 |
| 0.000 |

 |
| Cell activity (48h) |

|  |  |
| --- | --- |
| Con |  |
| DMSO |  |
| Cur |  |
| O-5 |  |
| O-10 |  |
| O-15 |  |
| O-20 |  |

 |

|  |
| --- |
| 1.713 ± 0.037 |
| 1.627 ± 0.074 |
| 0.907 ± 0.035 |
| 1.940 ± 0.049 |
| 1.953 ± 0.053 |
| 2.182 ± 0.089 |
| 2.216 ± 0.027 |

 |

|  |
| --- |
| Con vs DMSO |
| DMSO vs Cur |
| 5 vs Con |
| 10 vs Con |
| 15 vs Con |
| 20 vs Con |
| O-5 vs Cur |
| O-10 vs Cur |
| O-15 vs Cur |
| O-20 vs Cur |

 |

|  |
| --- |
| 0.338 |
| 0.000 |
| 0.010 |
| 0.010  |
| 0.003  |
| 0.000 |
| 0.000 |
| 0.000 |
| 0.000 |
| 0.000 |

 |
| Inhibition rate (24h) |

|  |
| --- |
| Cur |
| O-5 |
| O-10 |
| O-15 |
| O-20 |

 |

|  |
| --- |
| 14.380 ± 0.738 |
| -0.361 ± 0.677 |
| -2.317 ± 1.410 |
| -2.493 ± 1.417 |
| -4.005 ± 0.670 |

 |

|  |
| --- |
| O-5 vs Cur |
| O-10 vs Cur |
| O-15 vs Cur |
| O-20 vs Cur |

 |

|  |
| --- |
| 0.000 |
| 0.001 |
| 0.001 |
| 0.000 |

 |
| Inhibition rate (48h) |

|  |
| --- |
| Cur |
| O-5 |
| O-10 |
| O-15 |
| O-20 |

 |

|  |
| --- |
| 15.895 ± 0.055 |
| -1.793 ± 0.454 |
| -5.817 ± 0.510 |
| -7.855 ± 0.350 |
| -8.743 ± 0.078 |

 |

|  |
| --- |
| O-5 vs Cur |
| O-10 vs Cur |
| O-15 vs Cur |
| O-20 vs Cur |

 |

|  |
| --- |
| 0.000 |
| 0.000 |
| 0.000 |
| 0.000 |

 |