Supplementary materials

1. Population doubling times (PDT) formula:

In HAC proliferation assays, the population doubling time (PDT) was expressed in days and determined using the following formula:

\[ PDT = \frac{\ln 2}{GR} \]

Wherein GR (growth rate) = \( \ln (N_f/N_i)/T \) and \( N_f \) is the harvested cell count, \( N_i \) is the plated cell count, and \( T \) is the culture period duration expressed in days.

2. Long-term HAC proliferation in the presence of FBS:

![Graph showing total HAC counts at 85% confluency for different passage numbers](image)

**Fig. S1.** Long-term HAC proliferation in the presence of FBS (black) and hPL (white). HACs were enumerated during each passage procedure (i.e., P2 to P6). Data were presented as average ± SD of 16 independent experiments (i.e., average patient age of 53.5 years).