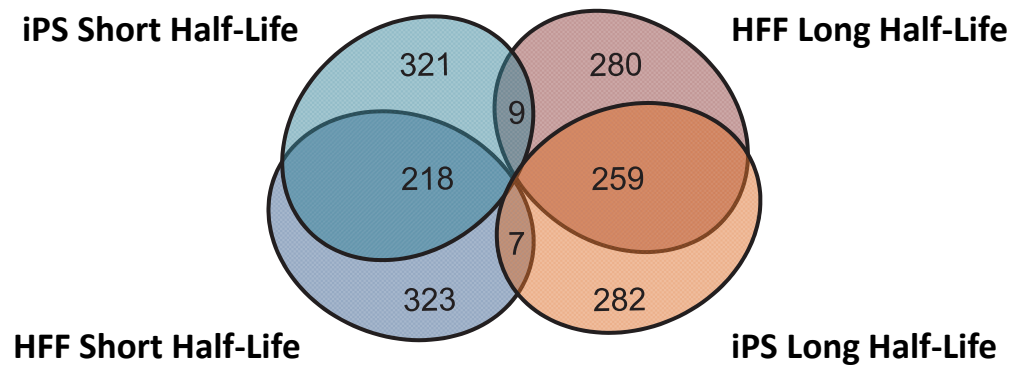
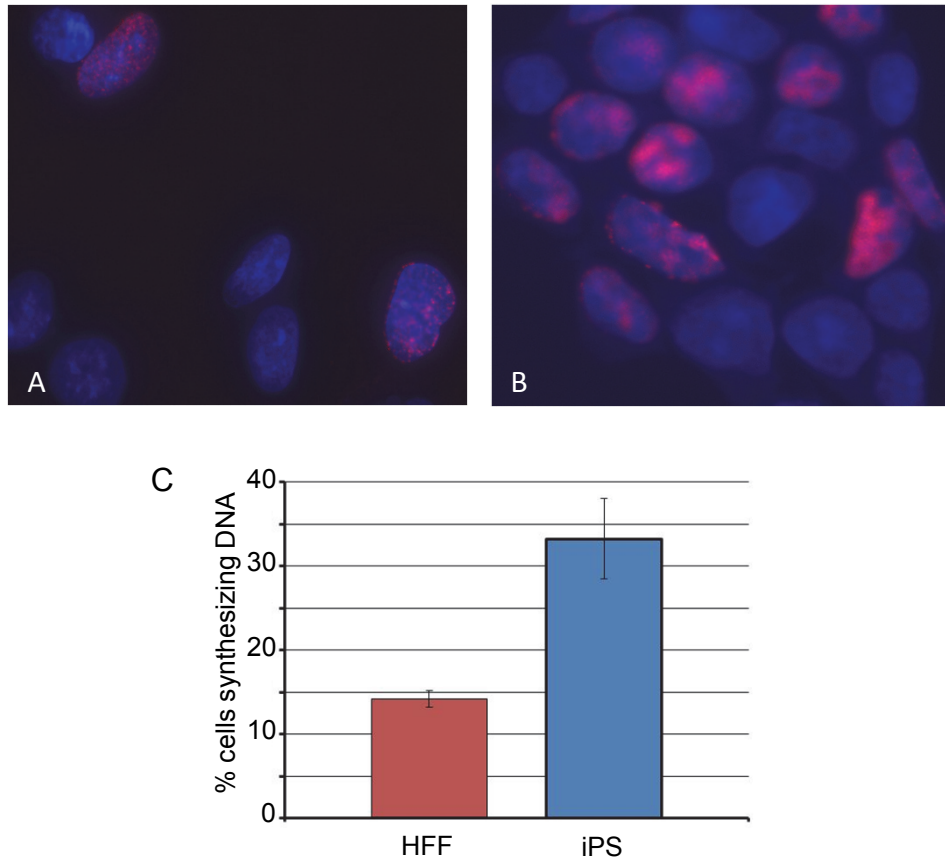




Supplementary Figure S1. Common sets of mRNAs with short and long half-lives in HFFs and iPS cells. There are 548 mRNAs (10% of the total) in each set.



Supplementary Figure S2: In asynchronous populations, more iPS cells are in S phase than HFF cells. HFFs (A) were cultured on chamber slides and iPS cells (B) were cultured on chamber slides coated with 0.3mg/ml Matrigel™ Basement Membrane Matrix Growth Factor Reduced (BD Biosciences). Cells were treated with 10μM BrdU (BD Biosciences) for 30 minutes at 37°C then fixed with 70% ethanol in 50mM glycine (pH 2.0) for 30 minutes at -20°C. To expose DNA for staining, cells were treated with 1.5M HCl for 30 minutes at room temperature. After rinsing with PBS, cells were blocked in 3% BSA/0.5% Tween 20 in PBS for 60 minutes at room temperature. Anti-BrdU (BU-1, Thermo Scientific) diluted 1:500 in 1% BSA/PBS was applied to the cells and left overnight at 4°C. Following rinsing with PBS, secondary antibody Alexa Fluor® 594 goat anti-mouse IgG (Invitrogen) was applied at a concentration of 1:2500 in 1% BSA in PBS for 2 hours at room temperature. Slides were then mounted using ProLong® Gold antifade reagent with DAPI (Life Technologies Corporation) and visualized using an Olympus IX71 microscope. The percentage of cells staining positive with anti-BrdU was determined and is represented as a bar chart in (C). The error bars represent the standard deviation.