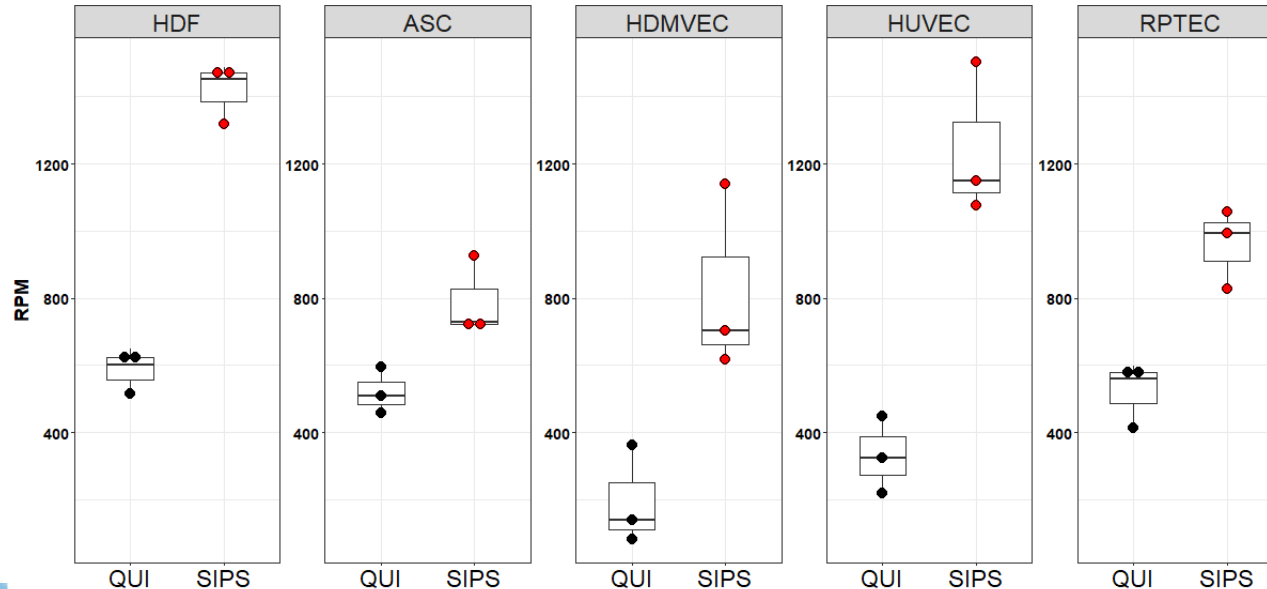


Standardized generation of senescent cells for testing senolytic activity of drugs

CDKN1A (p21) expression levels



FDR: 0.014
p-value: < 0.001

FDR: 0.037
p-value: 0.003

FDR: 0.066
p-value: 0.009

FDR: 0.003
p-value: < 0.001

FDR: 0.999
p-value: 0.005

RPTEC: renal proximal tubular epithelial cells, HUVEC: umbilical vein endothelial cells HDFs: human dermal fibroblasts, ASC: adipose derived mesenchymal stem cells, HDMVEC: human dermal microvascular endothelial cells

treatment of normal human cells with doxorubicin and induction of stress-induced premature senescence (SIPS)

confirmation of senescent phenotype by analysis of transcriptome (RNAseq)

significant overexpression of p21 in SIPS compared to quiescent cells (analysis of cell lysates from 5 different human cell types, 3 donors each)

use of senescent cells for testing senolytic activity of drugs

data generated in cooperation with