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Friend or Foe? Telomerase as a Pharmacological target in Cancer and Cardiovascular Disease

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Running Title:

Telomerase in Cancer and Cardiovascular Disease

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Non standard abbreviations

ALS: amyotrophic lateral sclerosis
ALT: alternative telomere lengthening mechanisms
ARIC: Atherosclerosis Risk in Communities
BP: blood pressure
CAD: coronary artery disease
CML: chronic myelogenous leukemia
CVD: Cardiovascular disease
EC: endothelial cells
ET-1: Endothelin 1
GWAS: Genome wide association studies
H₂O₂: Hydrogen peroxide
ITGB1: integrin beta 1

NNRTIs: non-nucleoside reverse transcriptase inhibitors
NO: Nitric Oxide
PGC-1 α : Peroxisome proliferator-activated receptor gamma coactivator 1-alpha
PPAR γ : Peroxisome proliferator-activated receptor gamma
ROS: reactive oxygen species
SHR: spontaneously hypertensive rats
TA: Decreased telomerase activity
TERT: telomerase reverse transcriptase
TGFB: transforming growth factor beta
TZDs: Thiazolidinedione
VSMC: Vascular smooth muscle cells

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