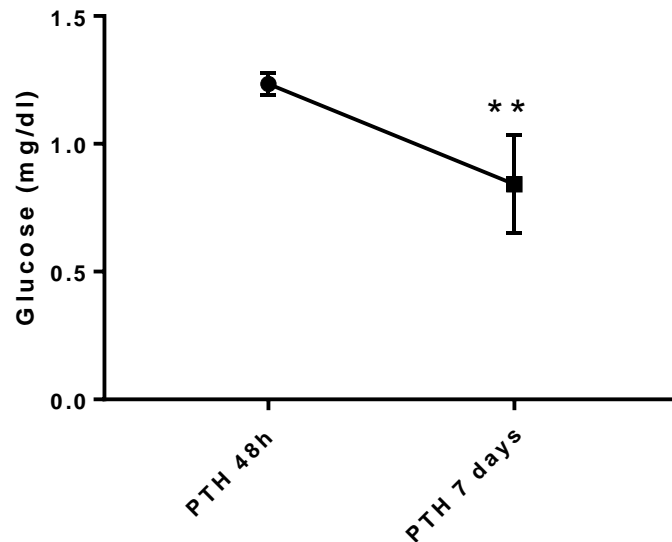


Supplementary methods

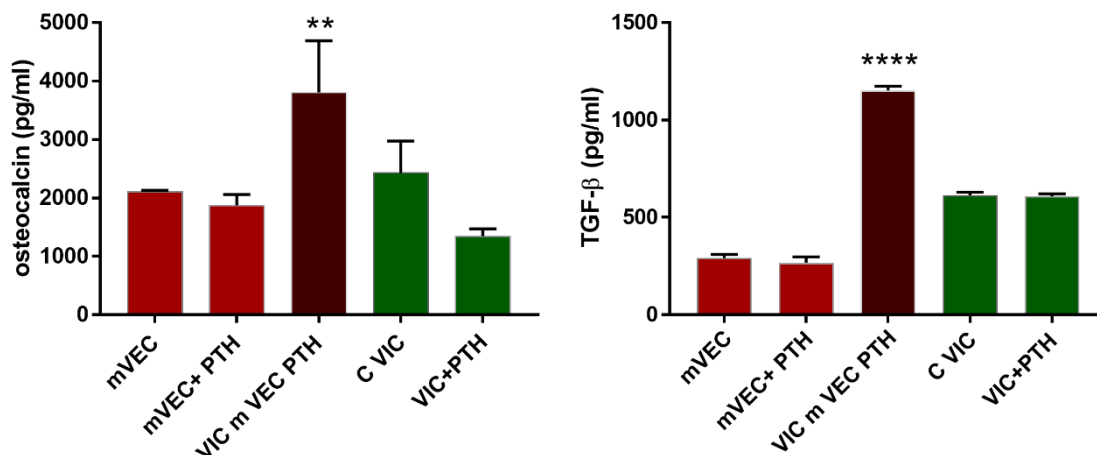
Glucose quantification assay

Glucose levels in the condition media from VEC exposed to PTH for 48h or 7 days were quantified using Glucose, GOD-PAP kit (DIALAB), according to manufacturer instructions.

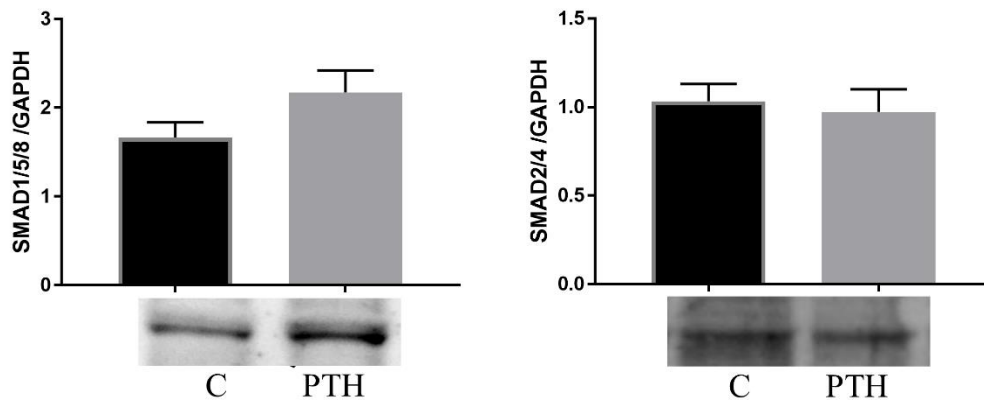
Supplementary figures



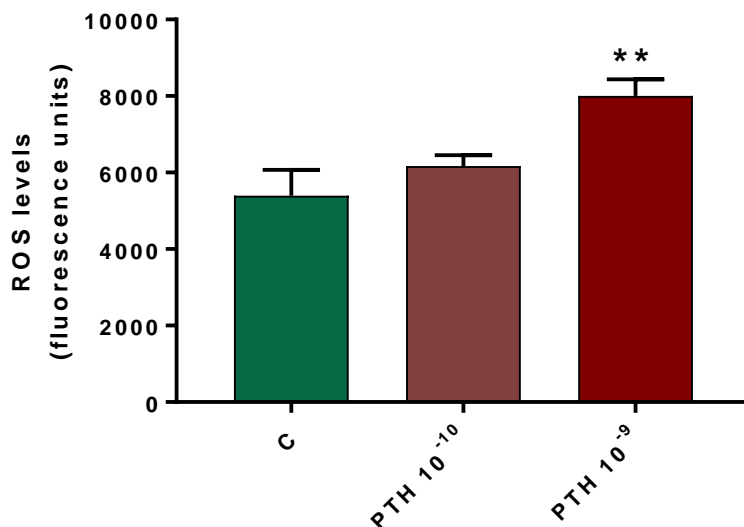
Supplementary figure S1. Evaluation of glucose levels in conditioned media from VEC exposed to PTH for 48h or 7 days. Conditioned media was analyzed for glucose levels using a glucose detection kit, ** $p < 0.01$.



Supplementary figure S2. Osteocalcin and TGF- β levels released by VEC or VIC in different experimental conditions: **mVEC** – CM from control VEC, **mVEC+PTH** - CM from VEC exposed to PTH, **VIC mVEC+PTH** - VIC treated with conditioned media from VEC exposed to PTH, **C VIC** - CM from control VIC, **VIC+PTH** – CM from VIC exposed to PTH, measured by ELISA. Note that CM from VEC or VEC+PTH or VIC exposed directly to PTH does not exhibit increased levels of osteocalcin or TGF- β . $n = 3$, ** $p < .01$, **** $p < .0001$.



Supplementary figure S3. Protein expression of SMADs expressed by VEC exposed to PTH. Quantification of protein expression of SMAD1/5/8 and SMAD2/4 in VEC as determined by Western blot. (F) Representative Western Blot images for investigated molecules are presented.



Supplementary figure S4. Evaluation of ROS production in response to two different concentrations of PTH. VEC were treated with PTH (10^{-10} M, 10^{-9} M) and the total amount of ROS was determined incubating the cells with the fluorescent probe DCFDA. The ROS levels were expressed as relative fluorescence units (** $p < 0.01$ vs. C). The image is the mean of three independent experiments.