

Figure S1. Mean trans-coarctational gradients determined by Doppler echocardiography 4 weeks after transverse aortic constriction (TAC). Male ($n = 18$), female ($n = 29$), ovariectomised (OVX) ($n = 5$) and orchietomised (ORCH) male ($n = 5$) mice.

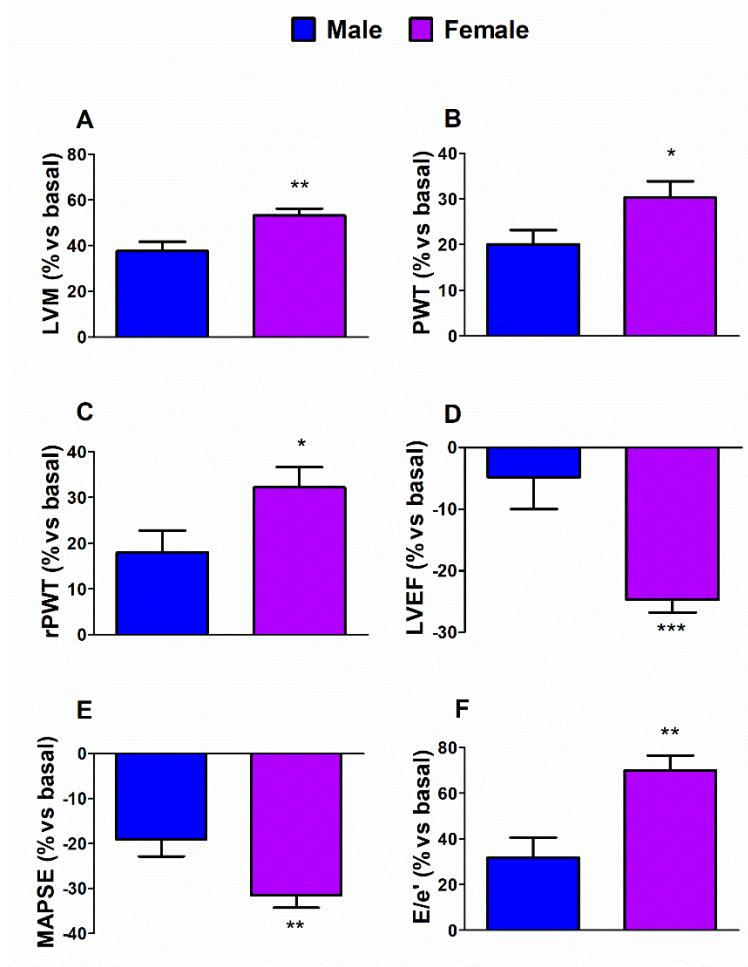


Figure S2. Percent change 4 weeks after TAC versus basal of morphological and functional echocardiographic parameters in male and female mice. A: LVM, LV mass; B: PWT, posterior wall thickness;

C: rPWT, relative posterior wall thickness; D: LVEF, LV ejection fraction; E: MAPSE, mitral annular plane systolic excursion; F: E/e' , ratio of peak early transmitral flow velocity to peak early myocardial tissue 1 velocity (e'). Data are means \pm SEM. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ (Unpaired t-test).

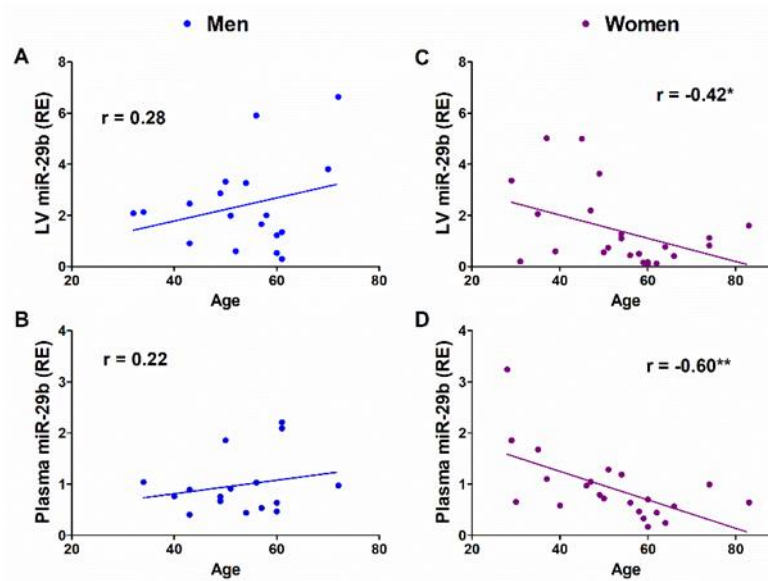


Figure S3. Linear regression and Pearson's correlation analyses between miR-29b expression in the LV and plasma with age in control patients of any age. A: miR-29b relative expression in the LV (RE vs RNU6b) and B: plasma (RE vs Cel-39) from control men. C: miR-29b relative expression in the LV (RE vs RNU6b) and D: plasma (RE vs Cel-39) from control women. r , Pearson's correlation coefficient (* $p < 0.05$, ** $p < 0.01$).