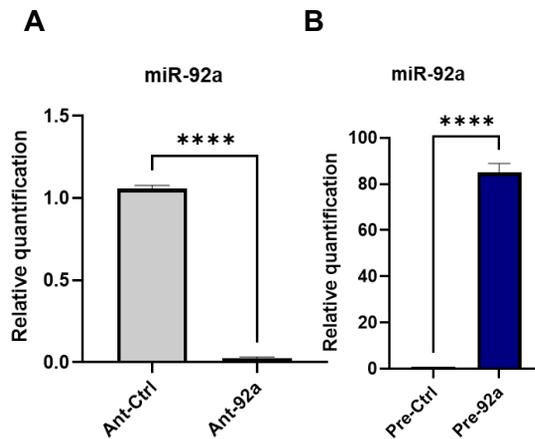
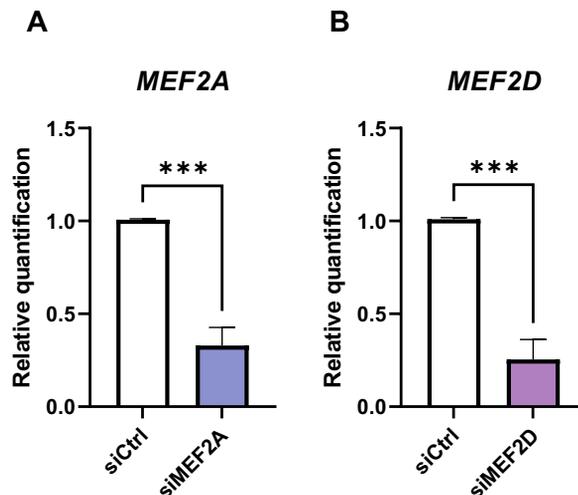


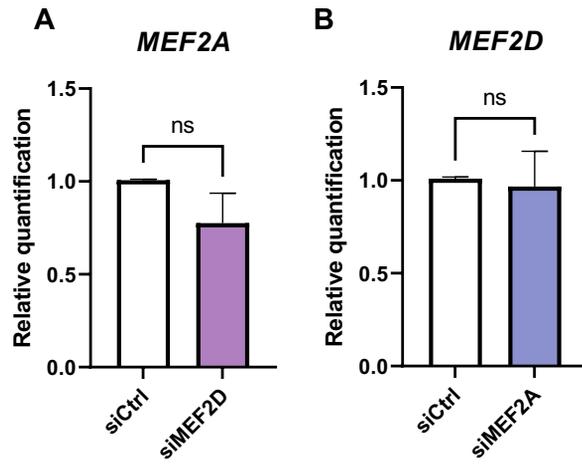
**Figure S1: Evidence of knockdown of *Kif2* and *Kif4* in MCMEC by specific siRNA.** (A, B) Quantitative PCR analysis of expression of *Kif2* and *Kif4* in MCMEC upon transfection of corresponding specific siRNA (siKif2, siKif4), respectively, relative to controls (siCtrl). Statistical analyses by unpaired student t-test (n = 4); \* $<0.05$ ; \*\* $<0.01$ ; \*\*\* $<0.001$ ; \*\*\*\* $<0.0001$ .



**figure S2: Evidence of overexpression or ablation of miR-92a in HCMEC.** Quantitative PCR analysis of miR-92a in HCMEC upon (B) downregulation by Ant-92a relative to control (Ant-Ctrl) or (A) overexpression by pre-92a relative to control (pre-Ctrl). Statistical analyses by unpaired student t-test (n = 5); \* $<0.05$ ; \*\* $<0.01$ ; \*\*\* $<0.001$ ; \*\*\*\* $<0.0001$



**Figure S3: Evidence of knockdown of *MEF2A* or *MEF2D* in non-diabetic HCMEC.** Quantitative PCR analysis of *MEF2A* or *MEF2D* in non-diabetic HCMEC upon transfection with respective siRNA (siMEF2A or siMEF2D) compared to control (siCtrl). Statistical analyses by unpaired student t-test (n = 4) ; \* $<0.05$ ; \*\* $<0.01$ ; \*\*\* $<0.001$ ; \*\*\*\* $<0.0001$ .



**Figure S4: Quantification of *MEF2A* or *MEF2D* in non-diabetic HCMEC upon *MEF2D* or *MEF2A* downregulation.** Quantitative PCR analysis of *MEF2A* or *MEF2D* in non-diabetic HCMEC upon transfection with respective siRNA (siMEF2A or siMEF2D) compared to control (siCtrl). Statistical analyses by unpaired student t-test (n = 4); \*<0.05; \*\*<0.01; \*\*\*<0.001; \*\*\*\*<0.0001.