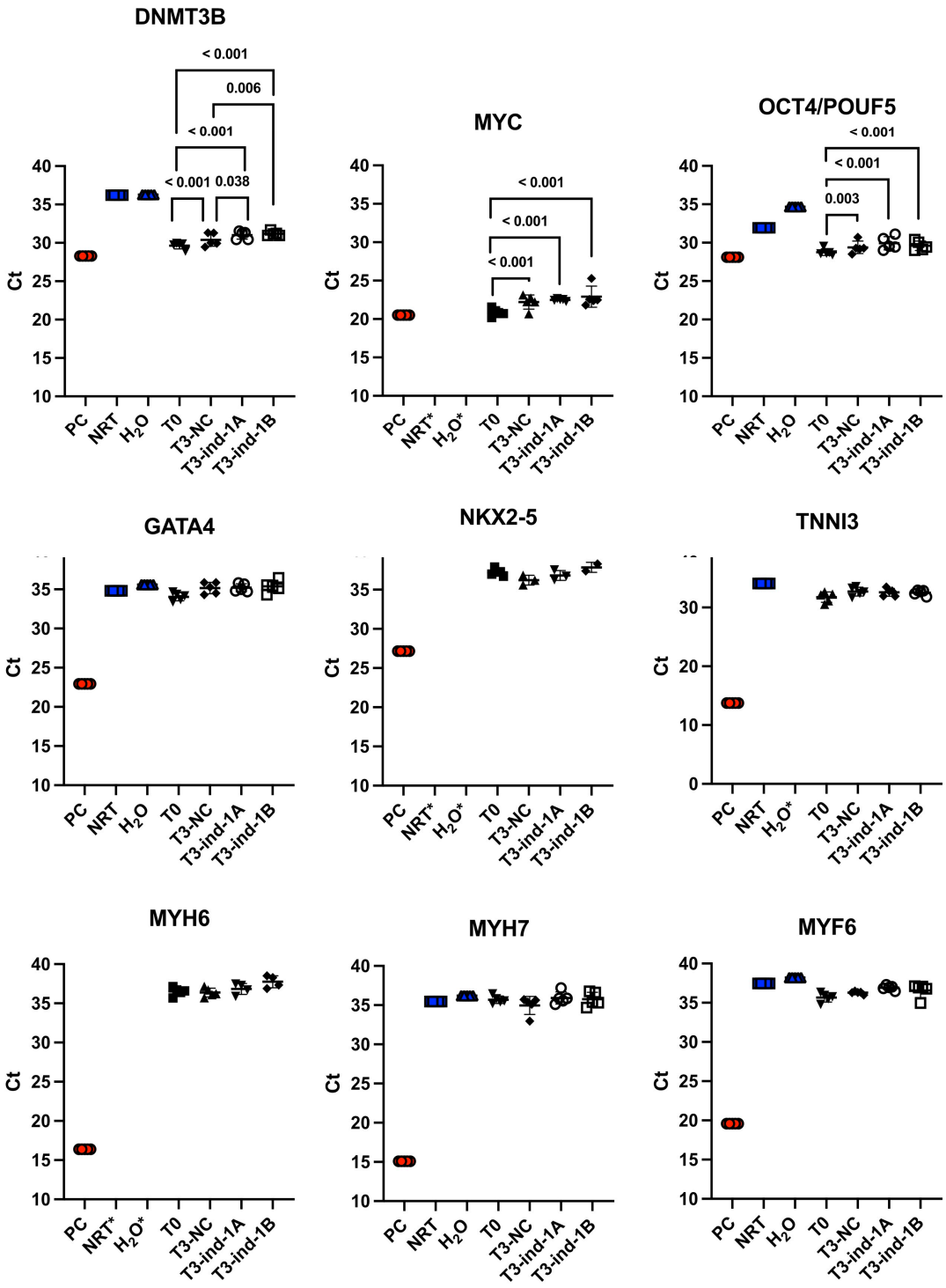
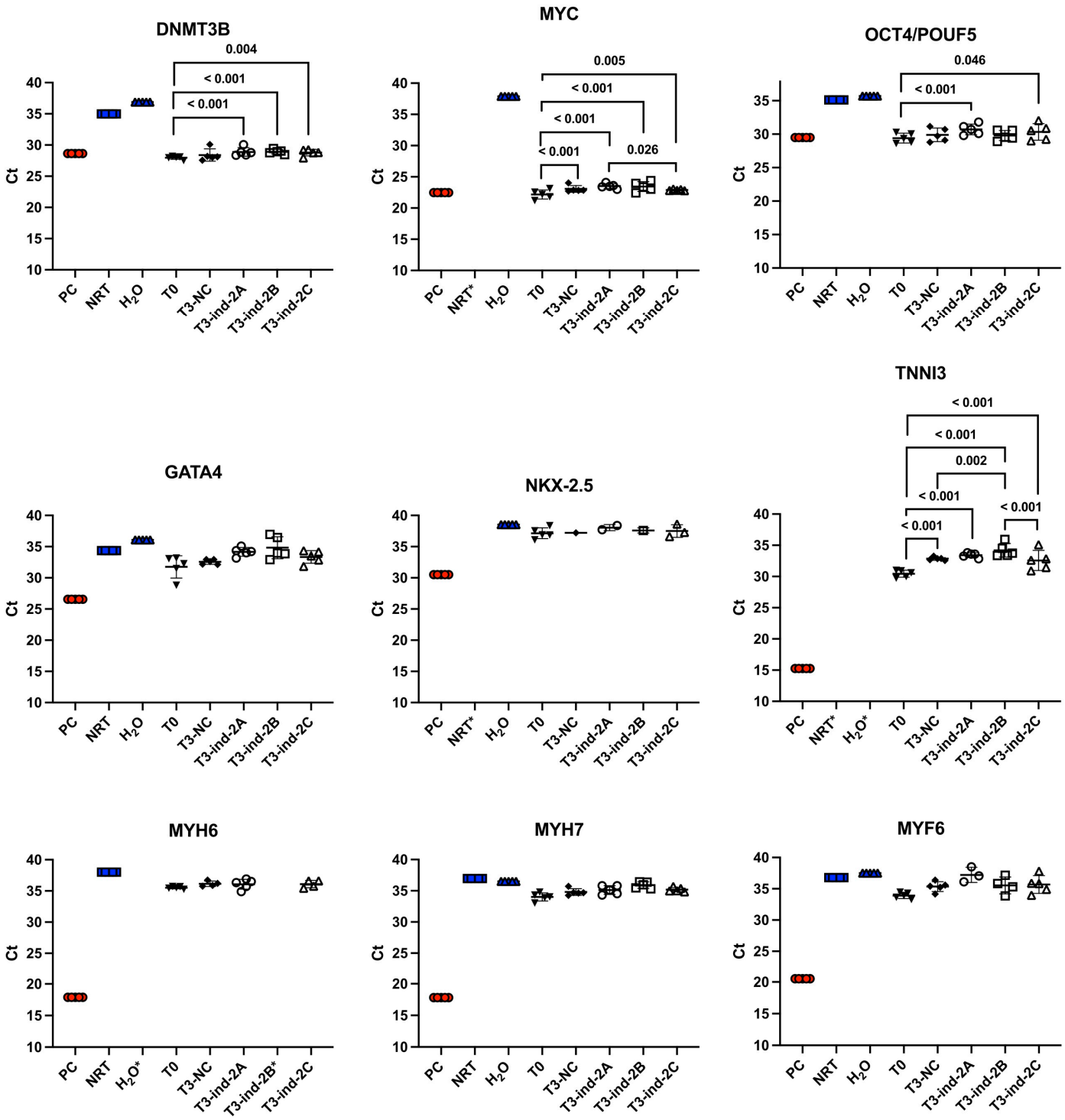



**Supplementary Figure S1:** Results of SYBR Green RT-qPCR (first sub-experiment) for the cardiac, myogenic and pluripotency-associated markers expressed in ASCs before (T0, non-induced) and three weeks after induction with activin A (Act A), bone morphogenetic protein-4 (BMP-4) and Dickkopf-1 (DKK-1) (T3-ind-1A, induced with 100 ng/ml Act A, 10 ng/ml BMP 4 and 100 ng/ml DKK 1; T3-ind-1B: induced with 100 ng/ml Act A, 20 ng/ml BMP-4 and 100 ng/ml DKK-1; T3-NC, negative control). In addition, positive (p, red) and negative controls (NRT and $H_2O$) are shown. The trial was performed in two experimental runs ($N = 5$ donors). In the dotplots, the $C_t$ mean values ± standard deviations (error bars) are shown. For the statistical analysis, a one-way ANOVA (post hoc: Tukey´s HSD) was performed and statistical significance was assumed at $p < 0.05$. **Abbreviations:** DNMT3B: DNA methyltransferase 3 beta, GATA4: GATA binding protein 4, ind: induced, MYC: MYC proto-oncogen, MYF6, myogenic factor 6, MYH6/7: myosin heavy chain 6/7, NC: negative control, NKX2-5: NK2 homeobox 5, NRT: no reverse transcriptase, OCT4/POUF5: octamer-binding protein 4/POU class 5 homeobox 1, TNNI3: troponin I3, cardiac type. *$C_t$ mean > 40.




**Supplementary Figure S2:** Results of SYBR Green RT-qPCR (second sub-experiment) for the cardiac, pluripotency-associated and myogenic markers expressed in ASCs before (T0, non-induced) and three weeks after induction with activin A (Act A), bone morphogenetic protein-4 (BMP-4) and Dickkopf-1 (DKK-1) (T3-ind-2A: induced with 0 ng/ml Act A, 50 ng/ml BMP-4 and 150 ng/ml DKK-1; T3-ind-2B: induced with 100 ng/ml Act A, 50 ng/ml BMP-4 and 150 ng/ml DKK-1; T3-ind-2C: induced with 100 ng/ml Act A, 50 ng/ml BMP-4 and 0 ng/ml DKK-1; T3-NC, negative control). Additionally, positive (p, red) and negative controls ($H_2O$ and NRT) are shown. The trial was conducted in two experimental runs ($N = 5$ donors). The $C_t$ mean values and standard deviations (error bars) are shown in the dotplots. A one-way ANOVA (post hoc: Tukey´s HSD) was performed for the statistical analysis, and statistical significance was assumed at $p < 0.05$. **Abbreviations:** see Supplementary Figure 1; *$C_t$ mean > 40.