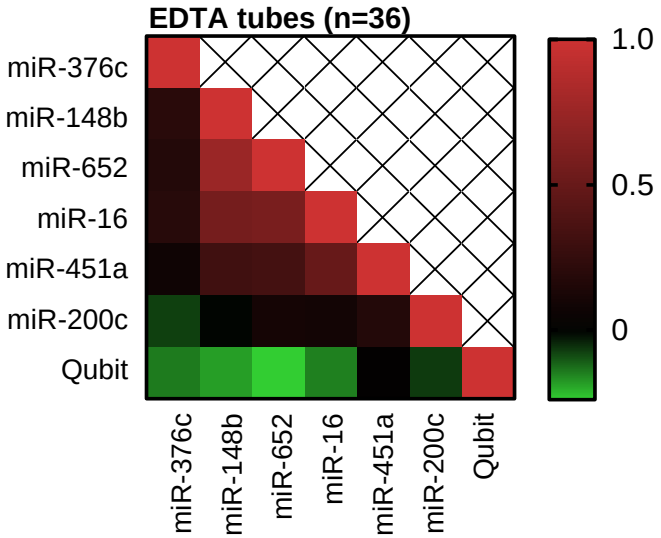
Supplemental Table 1

Summary of subject characteristics from both experiments

Experiment	Subjects	Female	Male	Age range	Median age
EDTA tubes	6	3	3	23-38	29,5
Long-term storage tubes	8	5	3	23-32	25,3



Supplemental Figure 1: Correlation of miRNAs stored in EDTA monovettes
Heatmap showing the correlation among the individual miRNAs and Qubit quantification in the experiment with EDTA tubes only.

Blood stored

4h, 24h, 5d, 7d

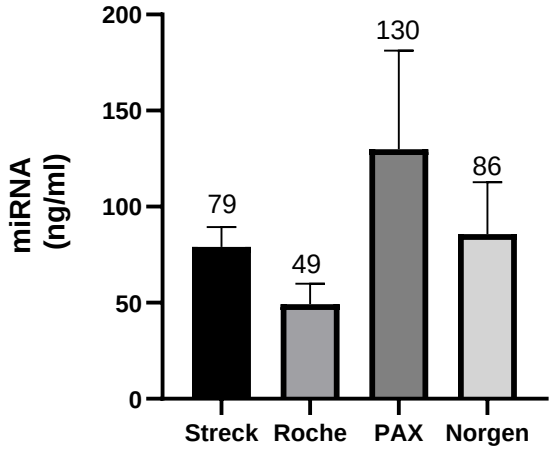
Plasma processing

cf-miRNA qPCR

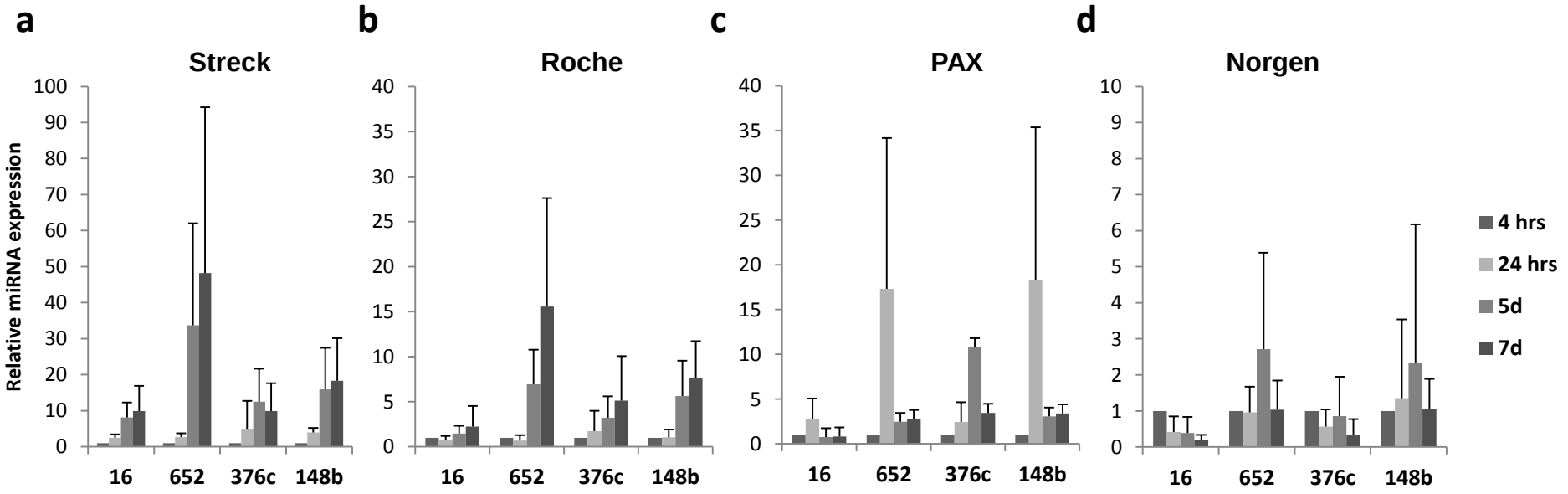
cfDNA ddPCR

4x long term storage tubes
8x test subjects
4x time-points
n=128 blood samples

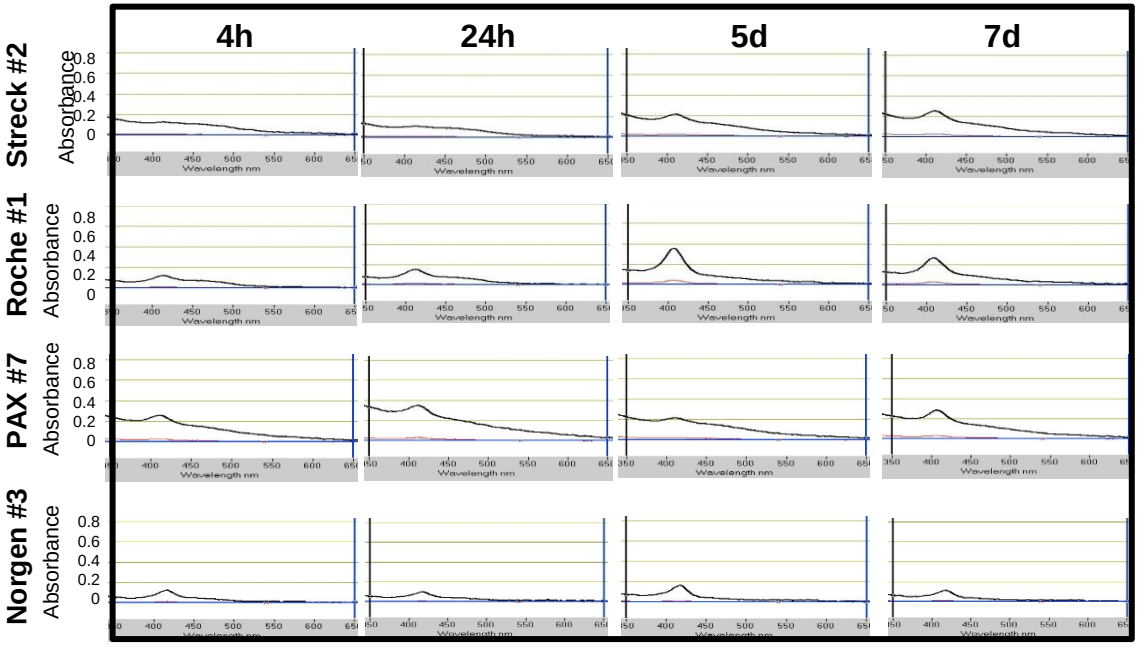
Supplemental Figure 2: Experimental Outline
Blood was drawn from 8 healthy donors into 4 different collection tubes and stored for up to 7 days before processing into plasma to be used for downstream analysis.



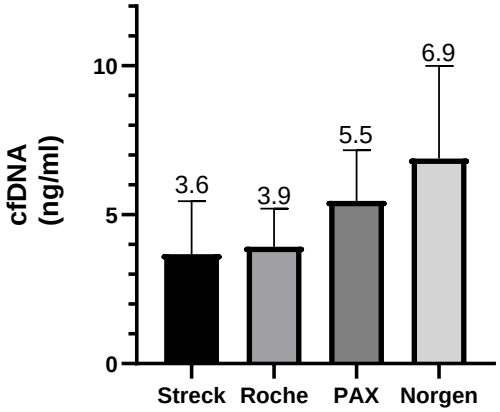
Supplemental Figure 3: miRNA content in long-term storage tubes
Average amount of cf-miRNA obtained from each tube type is shown



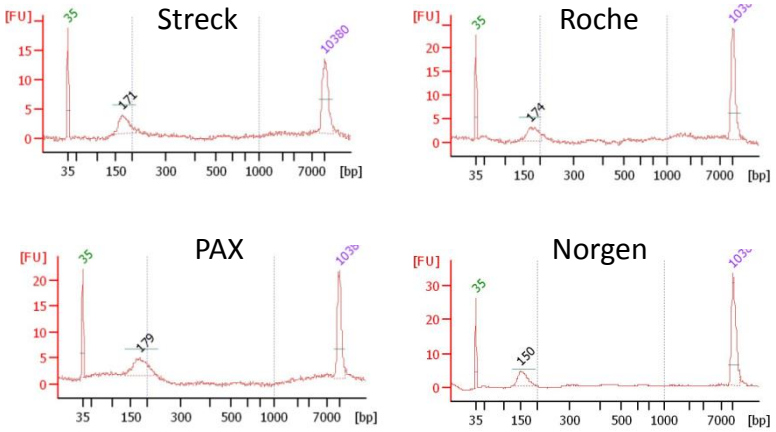
Supplemental Figure 4: miRNA qPCR
qRT-PCR for expression of miRs-16, -652, -376c and -148b in Streck (a) Roche (b) PAX (c) and Norgen (d) over time.



Supplemental Figure 5: Heme absorption
Representative plots for one subject from each tube type. Heme absortption, a characteristic of hemolysis, can be depicted with a peak at 414nm.



Supplemental Figure 6: cfDNA content in long-term storage tubes
Average amount of cfDNA obtained from each tube type



Supplemental Figure 7: Size profiles of cfDNA
A representative cfDNA fragment length from each tube type is plotted.