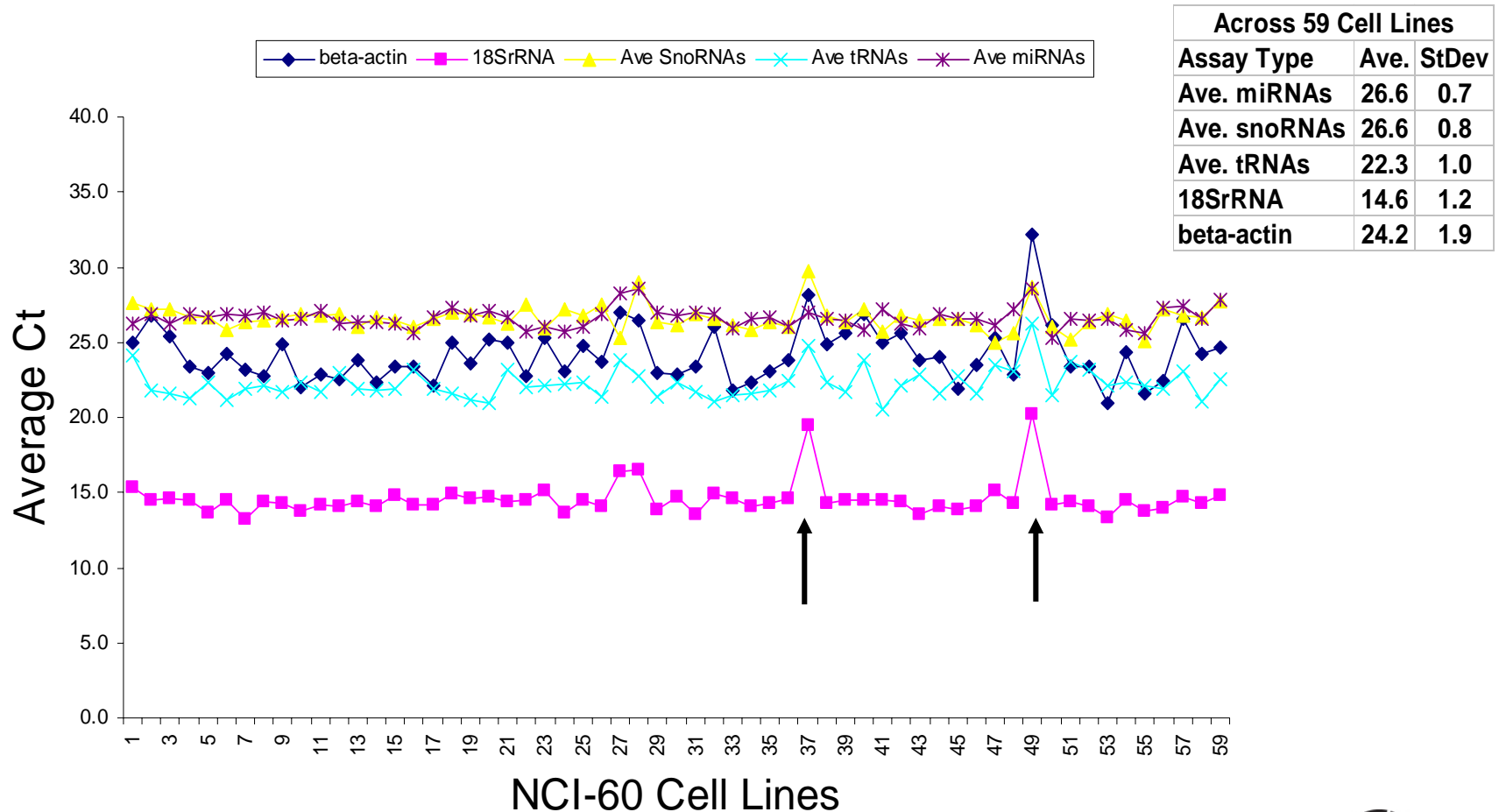


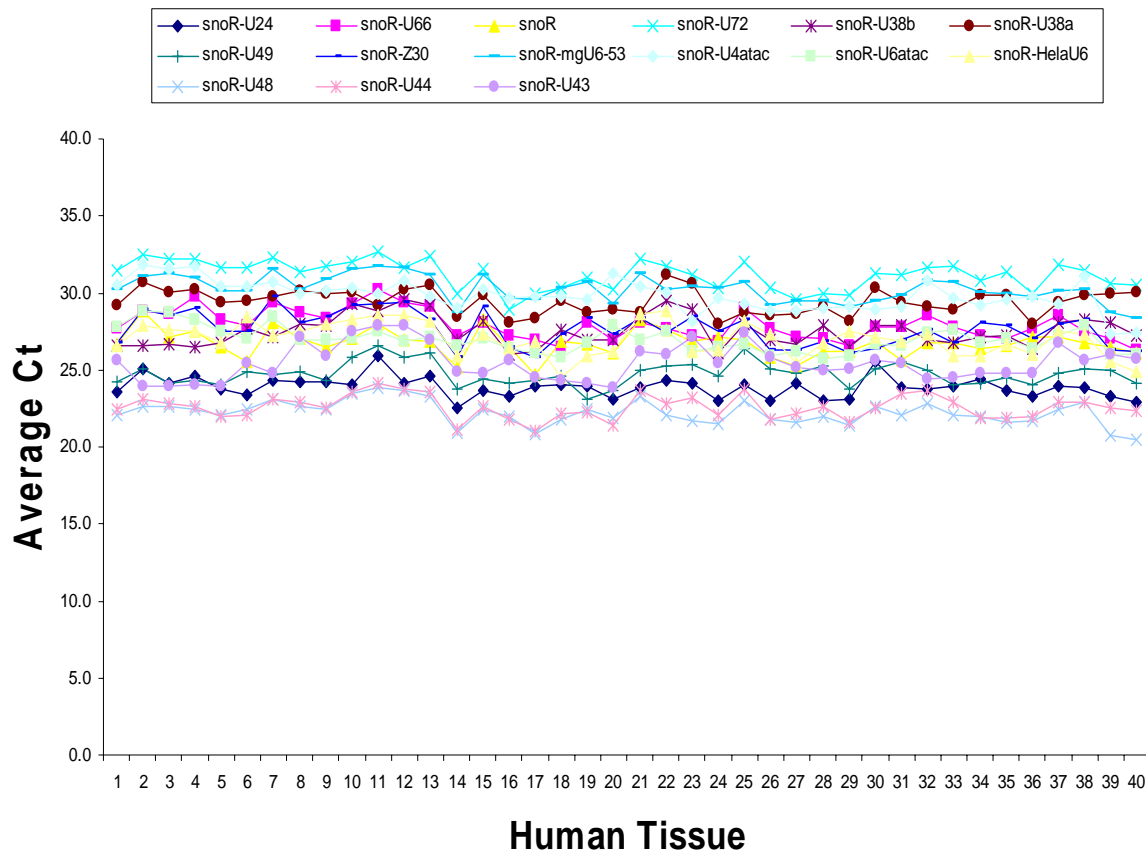
Recommendations for analyzing miRNA expression data

- Endogenous control genes recommended
 - snoRNA assays: 18, 10, and 5 for human, mouse and rat, resp.
 - Human: U6, RNU48, RNU44, U47, and RNU6B
 - Mouse: snoRNA-202, snoRNA-234, snoRNA-420
 - Least variable miRNA genes
 - Human/mouse tissues: miR-152, -186, -25, -92, -26b, -16
 - Human/mouse cell lines: miR-374, -16, -93, -186, -26b, -92
 - 18S rRNA or U6
- Normalize your C_T values using endogenous controls
- Use ΔC_T (miRNA C_T – Endo C_T) or fold-change ($2^{\Delta C_T}$) for clustering or estimating copy No. changes in samples

Expression pattern comparison for different types of endogenous controls in NCI-60 cell lines



snoRNA Expression in 40 Human Tissues



Across 40 Tissues		
Assay Type	Ave.	StDev
snoR-U24	23.9	0.7
snoR-U49	24.7	0.7
snoR-U44	22.6	0.8
snoR-U48	22.2	0.8
snoR-U6atac	27.0	0.8
snoR-U38a	29.4	0.8
snoR	26.7	0.9
snoR-mgU6-53	30.3	0.9
snoR-U72	31.2	0.9
snoR-U66	27.9	1.0
snoR-U38b	27.5	1.0
snoR-U4atac	29.8	1.0
snoR-HelaU6	27.0	1.1
snoR-Z30	27.6	1.1
snoR-U43	25.5	1.1