

This folder contains the smallRNA-seq data of female PGK and male E14 Embryonic Stem (ES) cell lines.

It is organized as follow :

- The 'miRNA' folder contains the UCSC tracks of the miRNA profiling of 10 samples
- The 'repeats' folder contains the BAM files of the reads annotated on repetitive elements (see repeatMasker).

This design was build to study the effects of the choice of sequencing platform and library preparation protocol on the results obtained (see Toedling, Servant, Ciaudo et al. for details).

<b>SampleID</b>	<b>CellType</b>	<b>Technology</b>	<b>Year</b>	<b>Barcode/index</b>	<b>Comment</b>	<b># reads</b>
ES_XY_454	E14 XY	454	2008	barcode	Ciaudo et al. (2009)	95203
ES_XY_Solexa_Illu	E14 XY	Solexa	2010	none	Illumina 3' adapter	28014973
ES_XY_Solexa_i_IDT	E14 XY	Solexa	2010	Index	IDT 3' adapter	7978382
ES_XY_Solexa_IDT	E14 XY	Solexa	2010	none	IDT 3' adapter	31316082
ES_XY_SOLID_v3	E14 XY	SOLiD	2010	none	SOLiD v3+	32685742
ES_XY_SOLID_v4	E14 XY	SOLiD	2010	barcode	SOLiD v4	2685423
ES_XX_454	PGK XX	454	2008	barcode	Ciaudo et al. (2009)	57497
ES_XX_Solexa_i_IDT	PGK XX	Solexa	2009	Index	IDT 3' adapter	9773750
ES_XX_SOLID_v3	PGK XX	SOLiD	2010	barcode	SOLiD v3+	32974547
ES_XX_SOLID_v4	PGK XX	SOLiD	2010	barcode	SOLiD v4	2714593

If you use these data, please cite :

Toedling, J., Servant, N., Ciaudo, C., Farinelli, L., Voinnet, O., Heard, E., Barillot, E., Deep-sequencing protocols influence the results obtained in small-RNA sequencing. Submitted.

And for the 454 data :

Ciaudo, C., Servant, N., Cognat, V., Sarazin, A., Kieffer, E., Viville, S., Colot, V., Barillot, E., Heard, E. & Voinnet, O. Highly dynamic and sex-specific expression of microRNAs during early ES cell differentiation. PLoS Genet, 2009.