

Supplementary Tables

Table S1. RNA-Seq data sources and literature references.

Cell/Tissue Type	Data Type	GEO Accession Number	Pubmed ID
Mouse hair follicle	Bulk RNA-Seq	GSE85039	PMID: 28695824
Mouse hair follicle	Single cell RNA-Seq	GSE85039	PMID: 28695824
Human ES cells	Bulk RNA-Seq	GSE75748	PMID:27534536
Human ES cells	Single cell RNA-Seq	GSE75748	PMID:27534536
Human lineage-specific progenitor cells	Bulk RNA-Seq	GSE75748	PMID:27534536
Human lineage-specific progenitor cells	Single cell RNA-Seq	GSE75748	PMID:27534536
Mouse ES cells (J1 line)	Bulk RNA-Seq	GSM2177789	PMID:21628449
Mouse ES cells (J1 line)	Single cell RNA-Seq	GSE75790	PMID:28212749
Mouse ES cells (E14 line)	Bulk RNA-Seq	GSE79578	PMID:29061959
Mouse ES cells (E14 line)	Single cell RNA-Seq	GSE79578	PMID:29061959

Table S2. Parameters used by SCRABBLE in the manuscript.

Name of the analysis	α	β	γ
Simulated data using Splatter (Strategy 1)	1	1.0e-6	1.0e-4
Simulated data using hair follicle data (Strategy 2)	1	1.0e-5	1.0e-2
Mouse ES cells (J1 line)	1	1.0e-7	1.0e-5
Mouse ES cells (E14 line)	1	1.0e-7	1.0e-5
Human lineage-specific progenitor cells	1	1.0e-5	1.0e-4
Mouse tissues: Spleen	1	1.0e-7	1
Mouse tissues: Fetal Brain	1	1.0e-7	1.0e-1
Mouse tissues: Small Intestine	1	1.0e-7	1
Mouse tissues: Kidney	1	1.0e-7	1
Mouse tissues: Liver	1	1.0e-7	1.0e-1
Mouse tissues: Fetal Liver	1	1.0e-7	1.0e-1
Mouse tissues: Lung	1	1.0e-7	1.0e-2
Mouse tissues: Placenta	1	1.0e-7	1.0e-1