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Supplemental information

Probabilistic boolean networks predict transcription factor targets to induce transdifferentiation

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This Supporting Information contains:

Figure S1. Histogram of non-zero counts before and after imputation, Related to Star Methods.

Figure S2. The t-SNE plot of data used in building PBNs, showing that the two cell types, Progenitor B and Monocyte, are easily distinguishable using 30 binarized transcription factors, Related to Star Methods.

Table S1. The transcription factor list, Related to Star Methods.

Figure S1. Histogram of non-zero counts before and after imputation, Related to Star Methods.

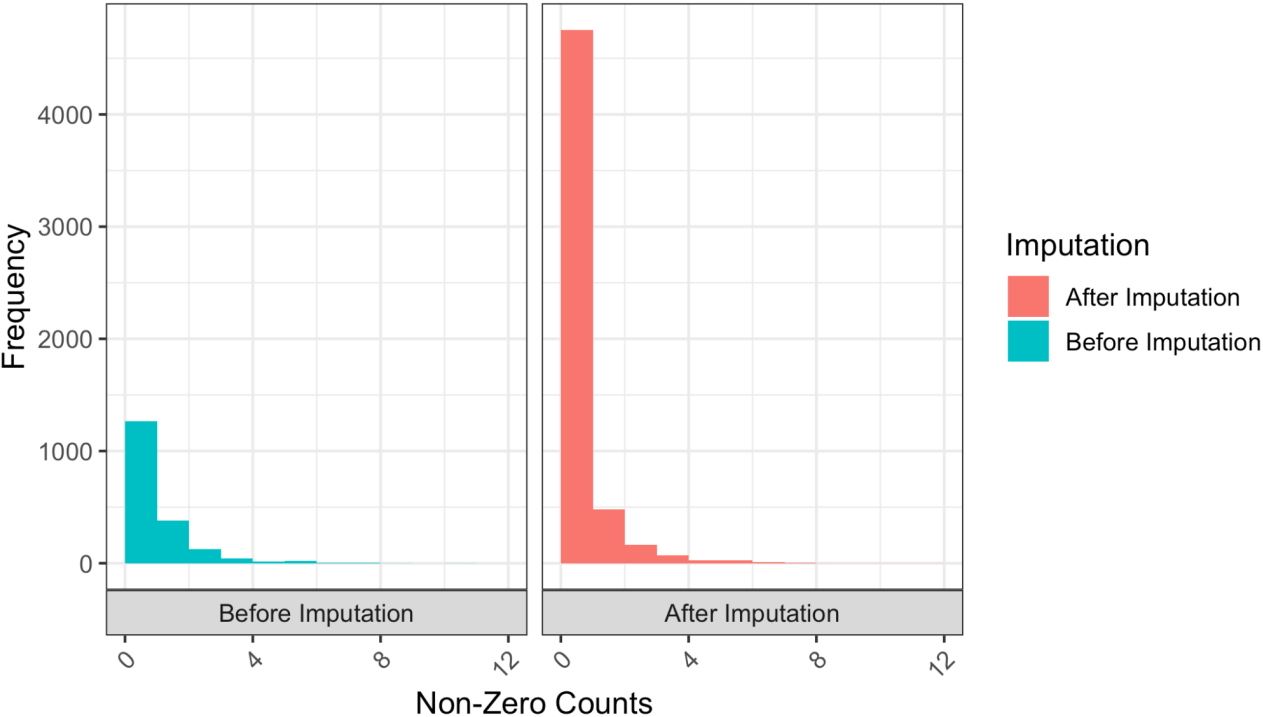


Figure S2. The t-SNE plot of data used in building PBNs, showing that the two cell types, Progenitor B and Monocyte, are easily distinguishable using 30 binarized transcription factors, Related to Star Methods.

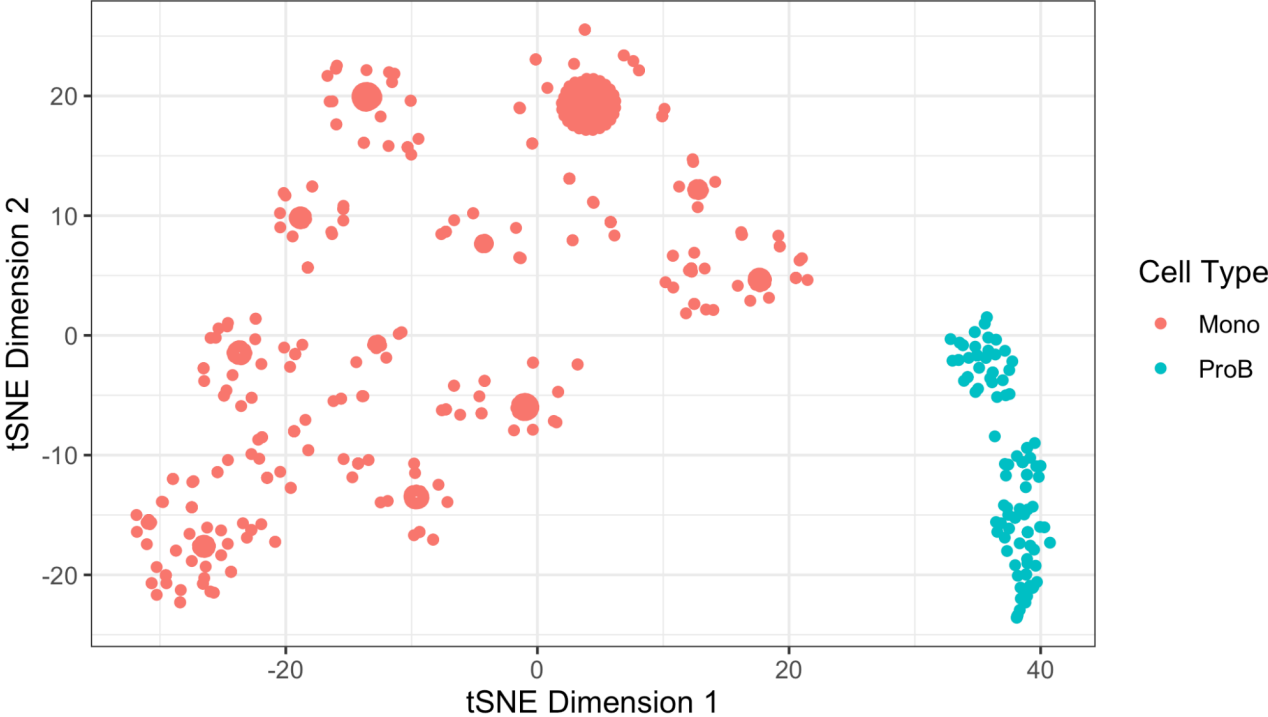


Table S1. The transcription factor list, Related to Star Methods

Transcription Factor	Gene name	Cell type
CEBPa	CEBPA	Mac
CEBPb	CEBPB	Mac
CTCF	CTCF	ES, Pre-Adi, Pro-B cell
E2A	TCF3	Pre-Pro-B cell
EBF	EBF1	Pro-B cell
ERG	ERG	HPC7
Eto2	CBFA2T3	Ery_MEL, Ind_Ery_MEL
Fli1	FLI1	HPC7
Foxo1	FOXO1	Pro-B cell
Gata1	GATA1	Ery_G1ER, Ery_MEL, Ind_Ery_MEL
Gata2	GATA2	eHPC, HPC7
Gfi1b	GFI1B	HPC7
Ldb1	LDB1	Ery_MEL, eHPC, Ind_Ery_MEL
Lmo2	LMO2	HPC7
Lyl1	LYL1	HPC7
Meis1	MEIS1	HPC7
Mtgr1	CBFA2T2	Ery_MEL, Ind_Ery_MEL
Oct2	POU2F2	B cell
p300	EP300	Mac
P65	RELA	Act.Mac
Pparg	PPARG	Mac
PU1	SPI1	Act.Mac, B cell, Mac, HPC7
RAG2	RAG2	Thy
Runx1	RUNX1	HPC7
SCL	TAL1	Ery_MEL, eHPC, Ind_Ery_MEL, HPC7, eHPC
Stat3	STAT3	T cell
Stat4	STAT4	T cell
Stat5a	STAT5A	13h_T cell, 2x_T cell, 8h_T cell
Stat5b	STAT5B	13h_T cell, 2x_T cell, 8h_T cell
Stat6	STAT6	T cell