**Experimental procedures**

**Biosample collection**

TaRGET II consortium mouse liver and blood samples were collected based on the following standard operating procedures.

* SOP\_Blood\_Processing
* SOP\_Mouse\_liver\_collection
* SOP\_Whole\_mouse\_perfusion\_blood\_protocol

**ATAC-seq library construction**

TaRGET II consortium mouse liver and blood ATAC-seq was performed with the following procedures:

* Aylor\_ATACseq\_Omni Liver and blood
* Bartolomei\_ATACseq\_Omni Liver
* Bartolomei\_ATACseq\_FastATAC Blood
* Biswal\_ATACseq\_Omni Liver
* Biswal\_ATACseq\_FastATAC Blood
* Dolinoy\_ATACseq\_MichiganEpiCore Liver and blood
* Mutlu\_ATACseq\_Omni Liver
* Mutlu\_ATACseq\_FastATAC Blood
* Walker\_ATACseq\_Omni Liver and blood
* ZhibinWang\_ATACseq\_Omni Liver

**RNA-seq library construction**

TaRGET II consortium mouse liver and blood RNA-seq was performed with the following procedures:

* Aylor\_RNAseq\_Kapa
* Bartolomei\_RNAseq\_Kapa
* Bartolomei\_RNAseq\_ScriptSeq
* Biswal\_RNAseq\_TruSeq
* Dolinoy\_RNAseq\_TruSeq
* Mutlu\_RNAseq\_TruSeq
* ZhibinWang\_RNAseq\_TruSeq

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