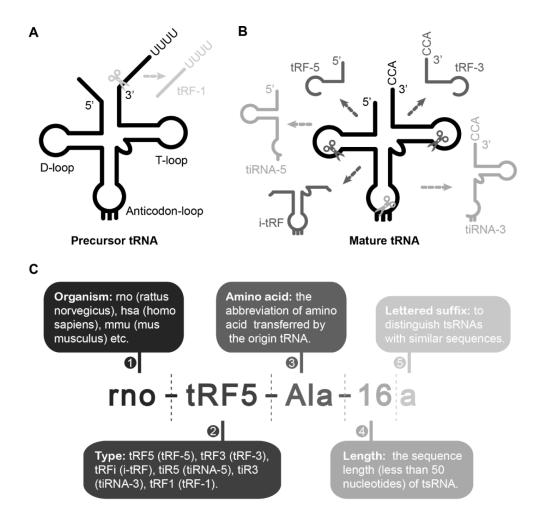
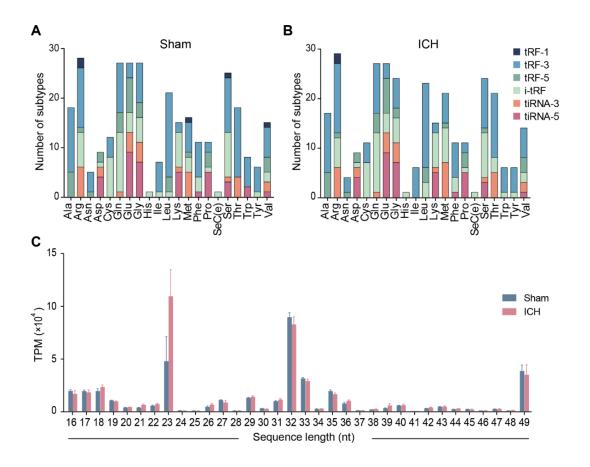
## SUPPLEMENTARY FIGURES



Supplementary Figure 1. Classification and a uniform naming system of tsRNAs. The 6 types of transfer-RNA-derived small RNA (ts RNA) that differed in the cleavage position, one from the precursor tRNA(A) and five from the mature tRNA (B). A uniform system for ts RNA annotation in 5 steps: organism, type, a mino a dd, length and lettered suffix (C). The first three letters signified the organism. The second part represented the type (tRF5 indicates tRF-5; tRF3, tRF-3; tRFi, i-tRF; ti R5, tiRNA-5; ti R3, tiRNA-3; and tRF1, tRF-1). The third was the abbreviation of a mino a dd transferred by the origin tRNA. Although one ts RNA might be derived from several tRNAs, these tRNAs usually transferred the same a mino a cid. Consequently, it was a one-to-one match between the ts RNA and a mino a cid. Rarely, tRNAs (chr17.trna3927-ValCAC, chr17.trna3928-ValCAC, and chr10.trna7847-AlaAGC) from which rno-tRF5-Val-23b a rose, transferred Valine (Val) and Alanine (Ala). In this case, we used the first tRNA ranked by the identifying number to represent the origin tRNA. Fourthly, the number denoted the sequence length. Finally, lettered suffixes were used to distinguish highly similar sequences. For instance, rno-tiR5-Gly-31a (GCATTGGTGGTTCAGTGGTAGAATTCTCGCC) and rno-tiR5-Gly-31b (GCATTGGTGGTTCAGTGGTAGAATTCTCGCC) were nearly identical while slightly different at the fifth nudeotide in the sequence. With the uniform system, a unique identifying name was given and could convey the basic information of ts RNAs.



**Supplementary Figure 2. The information of tsRNAs in each group.** Stacked plot for all subtype oftsRNAs of the sham (A) and ICH (B) group clustering by the anticodon of the tRNAs. The X axis represents the tRNAs with the same anticodon, and the Y axis show the number of all subtype ts RNAs derived from the same anticodon tRNA. The bar with color represents the number of each subtype tsRNA. (C) The lengths of ts RNAs were concentrated in the range of 16-23, 29-36, and 49 nt. TPM indicates tag counts per million of total aligned tRNA reads, representing ts RNA expression levels.