Supporting Information File 3

Transcriptional Profiles of Leukocyte Populations Provide a Tool for Interpreting Gene Expression Patterns associated with High Fat Diet in Mice

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Inflammation Profiles for 24 Strain-Gender Combinations

The procedure illustrated in Figure 2 was used to calculate inflammation profiles associated with high fat diet for each of the 24 strain-gender combinations evaluated in the Novartis strain-gender-diet dataset (i.e., males and females of 12 mouse strains: 129S1/SvImJ, A/J, C57BL/6J, BALB/cJ, C3H/HeJ, CAST/EiJ, DBA/2J, I/LnJ, MRL/MpJ-Tnfrs6lpr/J, NZB/BINJ, PERA/Ei, SM/J). For each strain-gender combination, this file shows inflammation profiles associated with each strain-gender combination, which can be compared to that associated with B6 male mice (see Figure 3). Each symbol corresponds to an individual cell population evaluated, where large ratios (HF-increased / HF-decreased) indicate that signature transcripts of a given population are disproportionately elevated in hepatic tissue of mice provided a high fat diet. The dotted vertical line shown in each figure corresponds to the ratio of HF-increased to HF-decreased transcripts observed among all 45,101 transcripts on the Affymetrix 430 2.0 array platform. Black symbols represent cell populations that did not meet criteria for statistical significance (i.e., the HF-increased / HF-decreased ratio was not unusual among signature transcripts of such cell populations). Red symbols represent cell populations for which statistical significance criteria were satisfied (i.e., the HF-increased / HF-decreased ratio was unusual among signature transcripts; see Methods for description of statistical criteria). The highest-scoring population is represented by an asterisk symbol (*) rather than an open circle.

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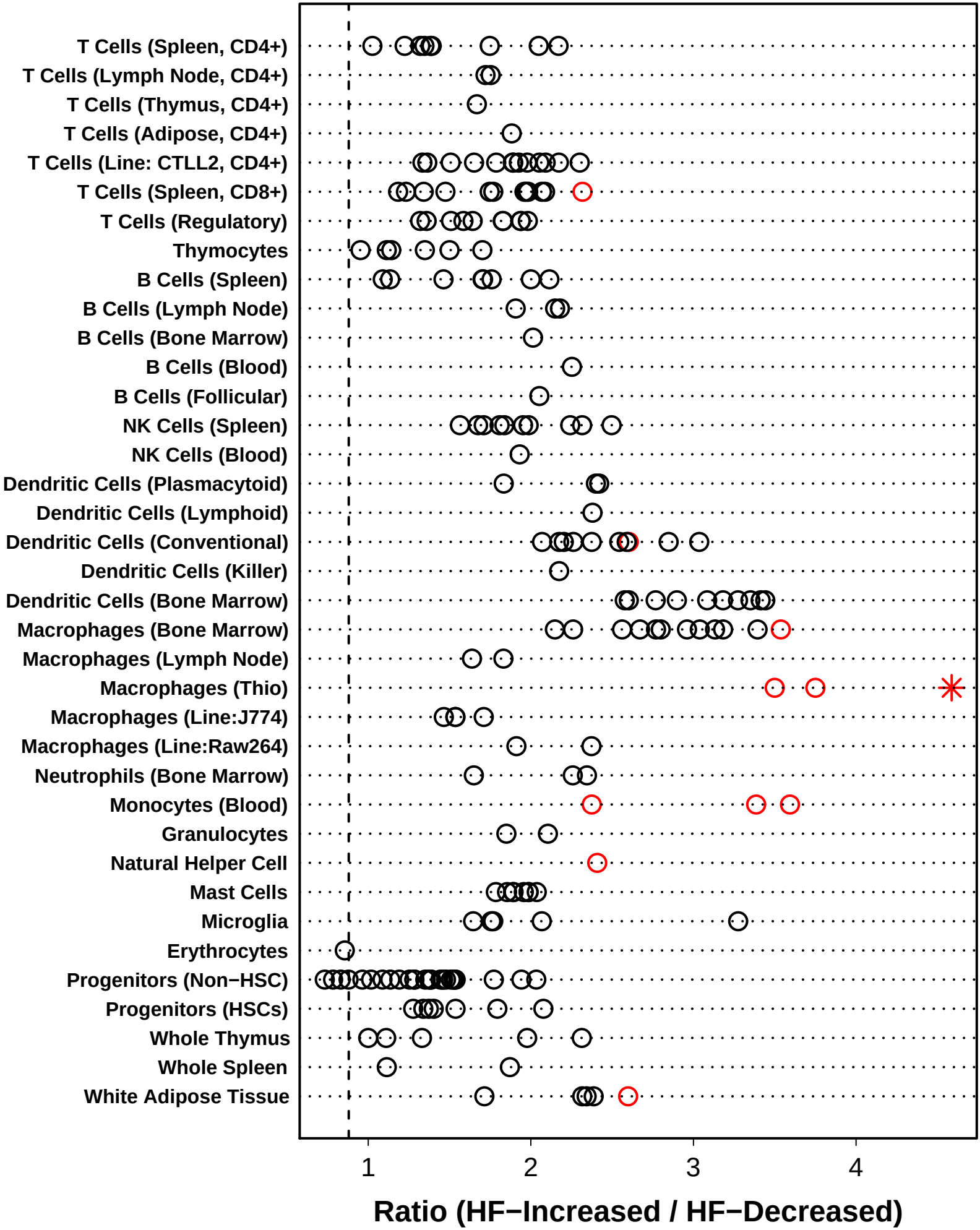
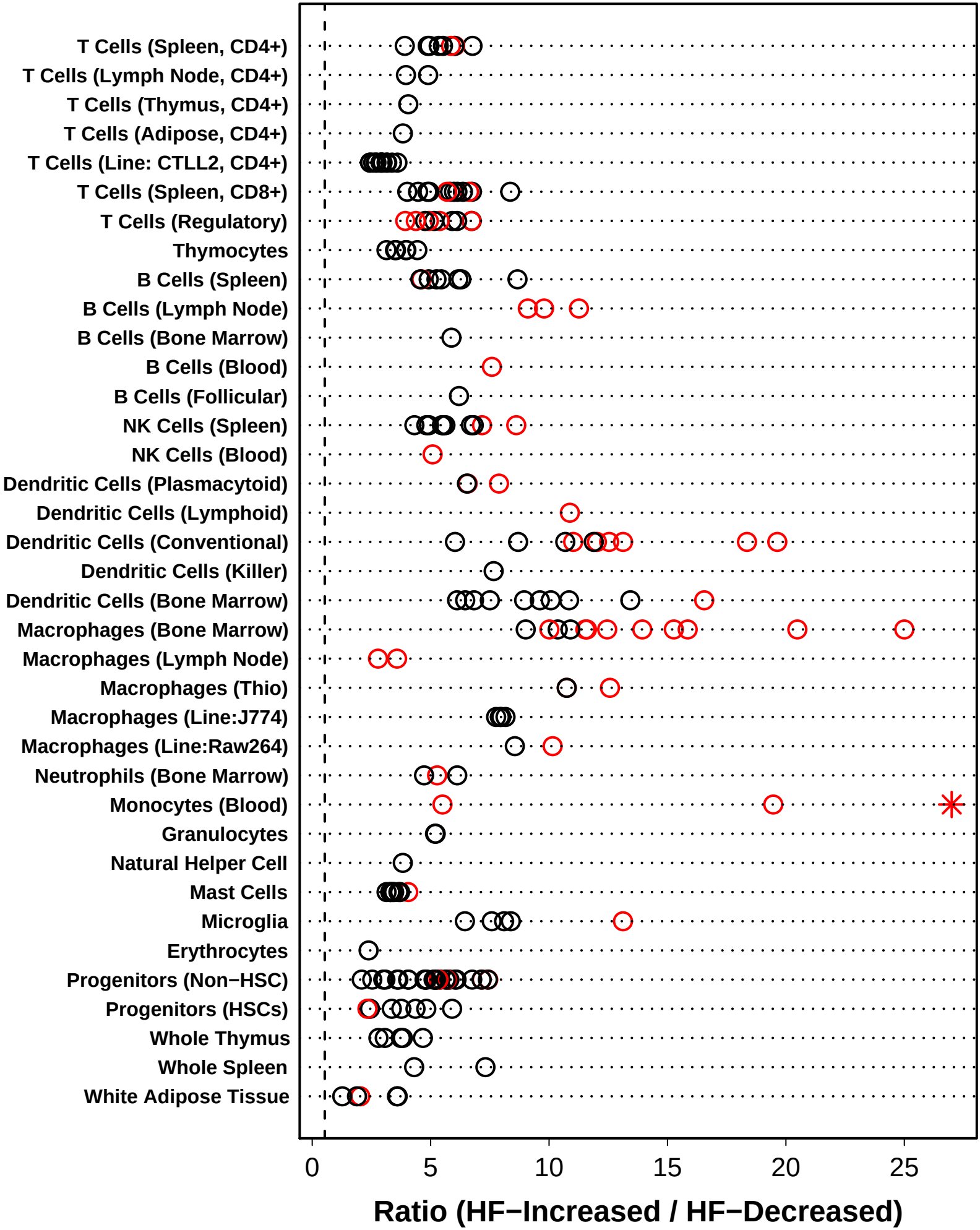
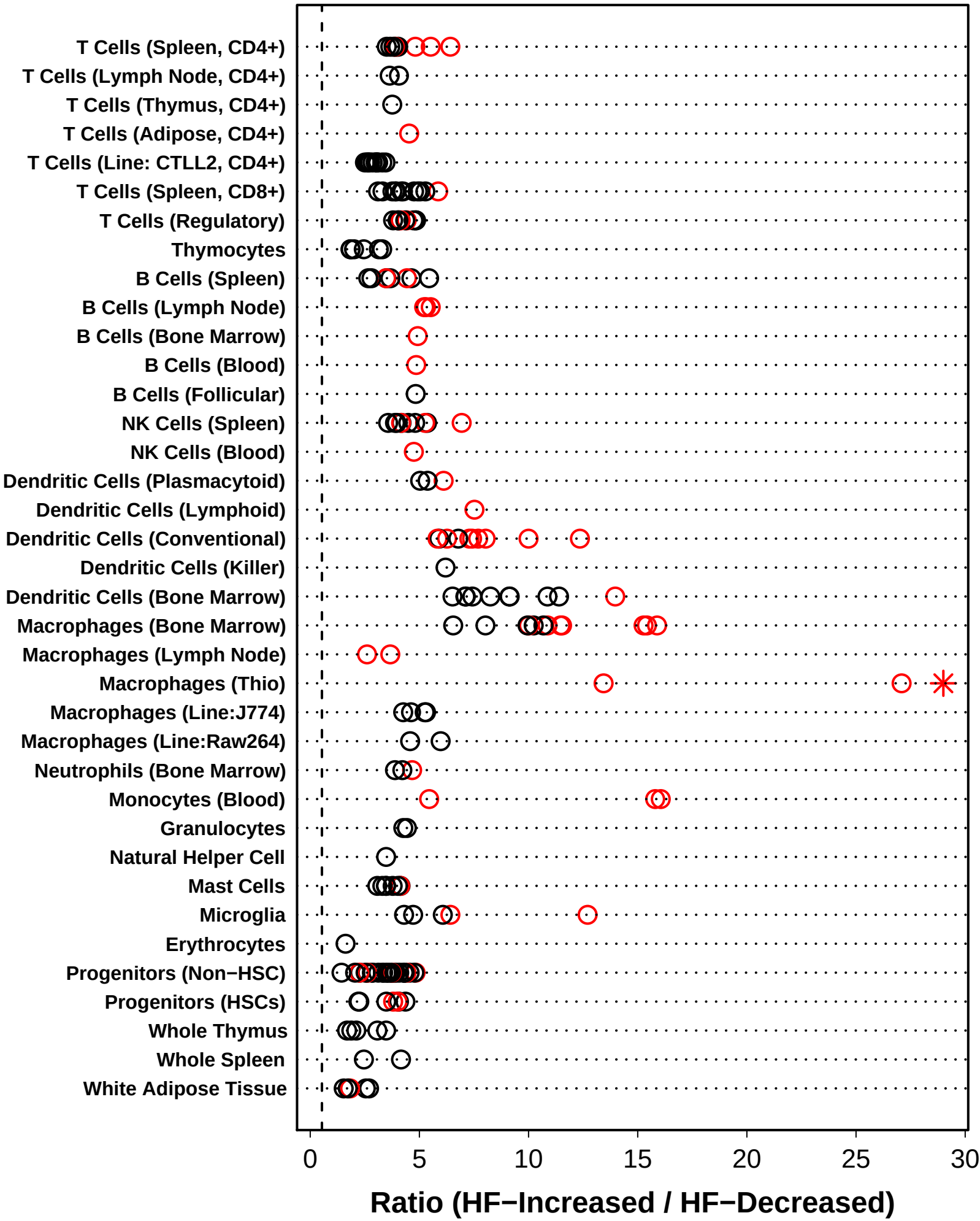
Strain: 129S1/SvImJ; Gender: Female



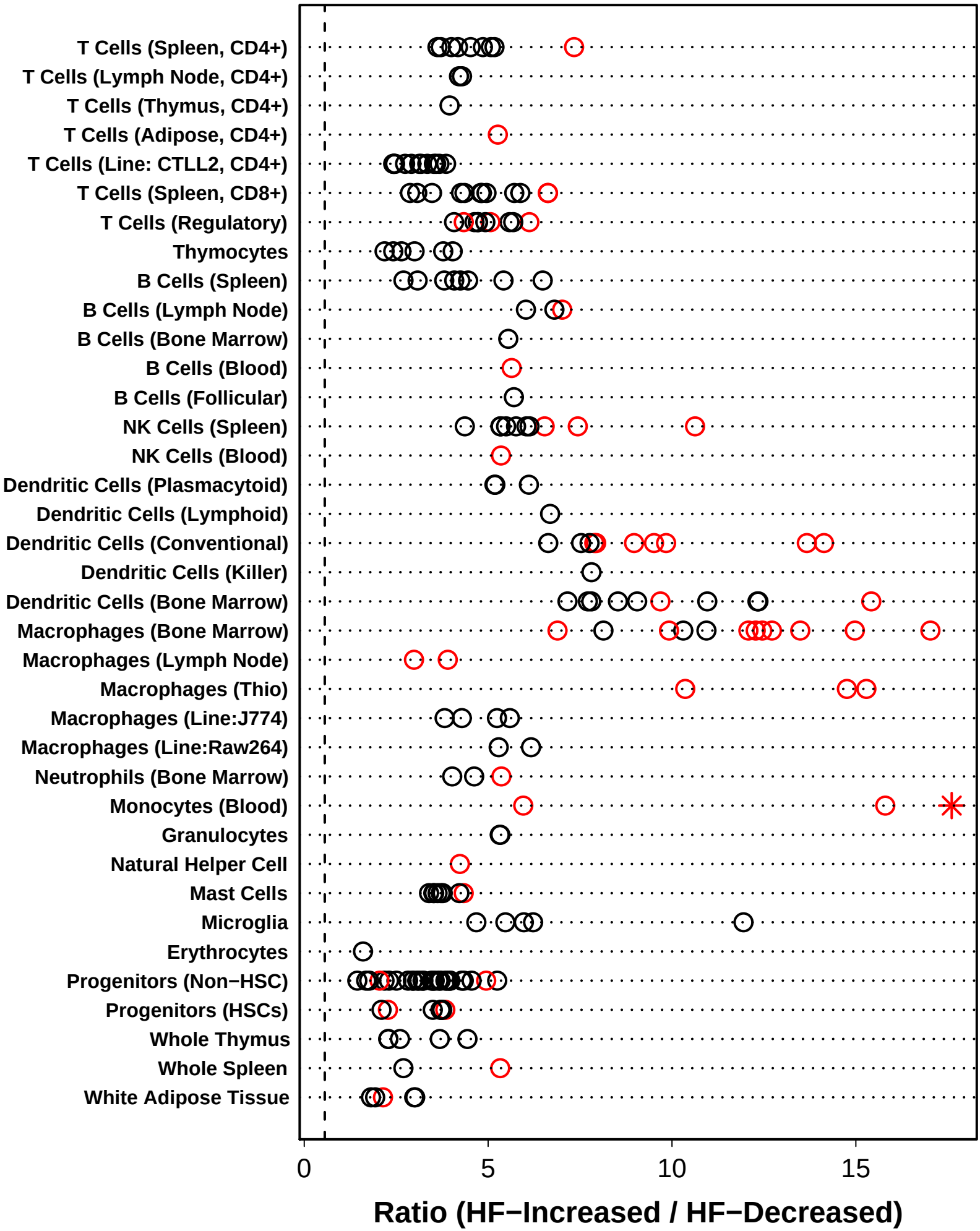
Strain: 129S1/SvImJ; Gender: Male



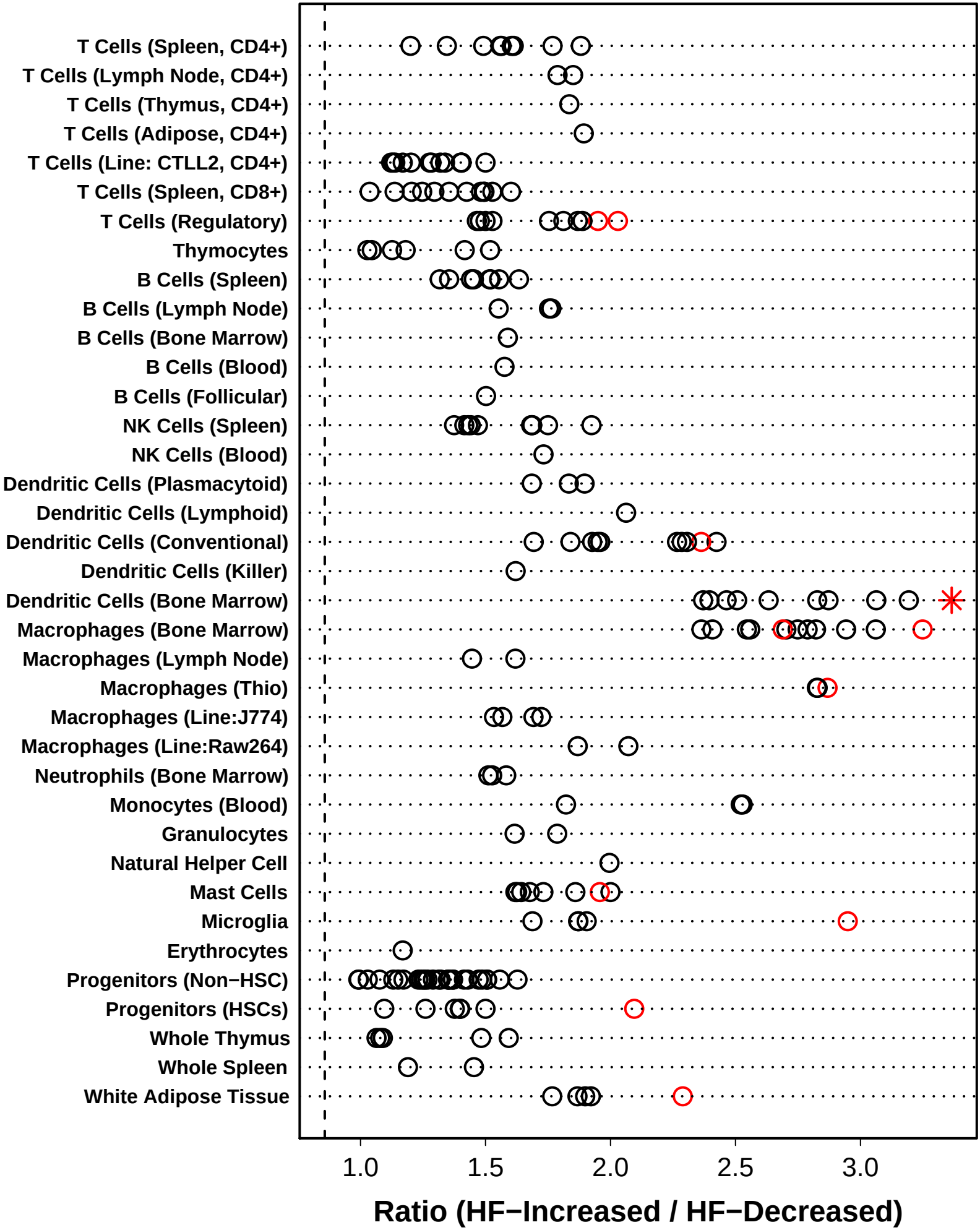
Strain: A/J; Gender: Female



Strain: A/J; Gender: Male



Strain: C57BL/6J; Gender: Female



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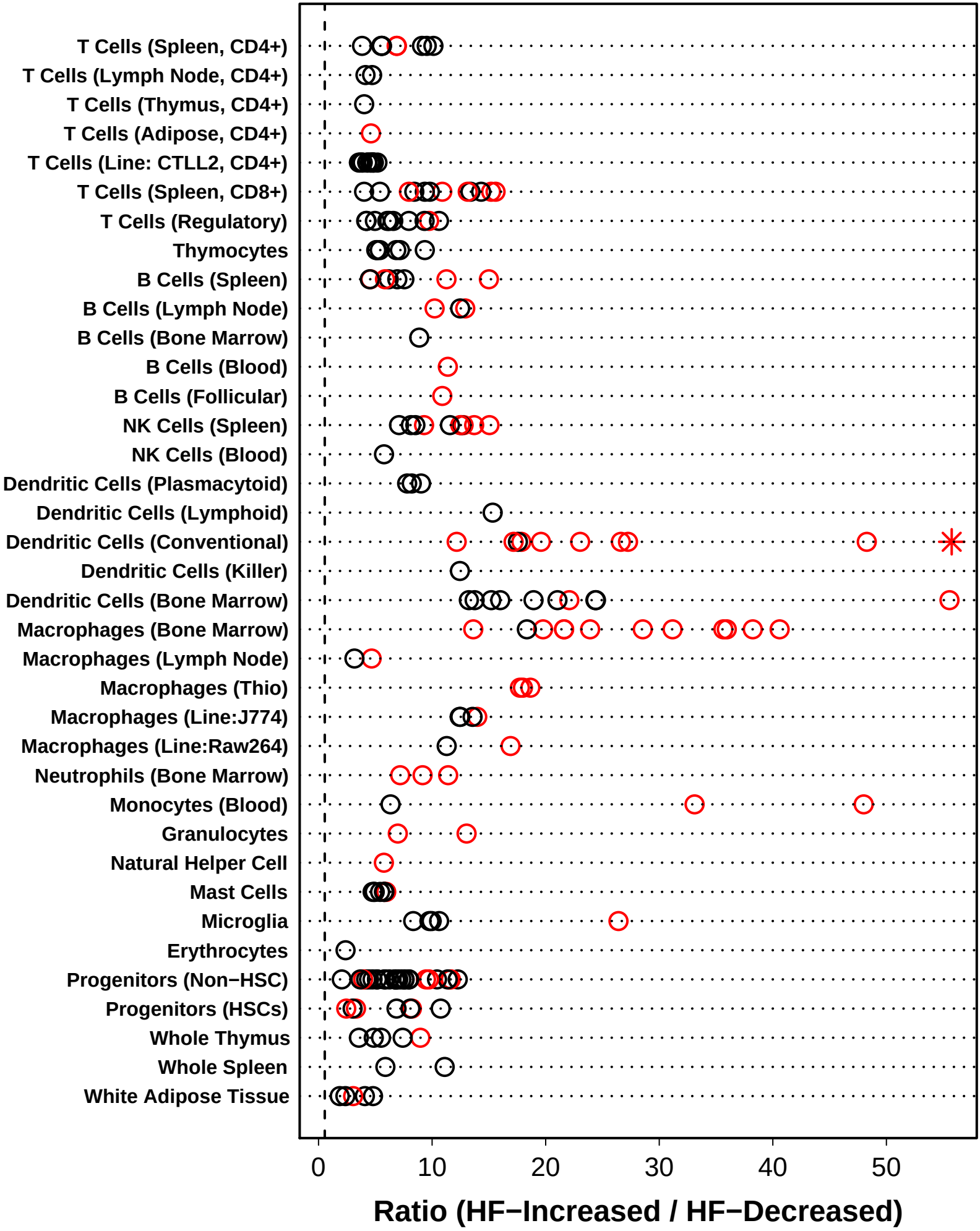
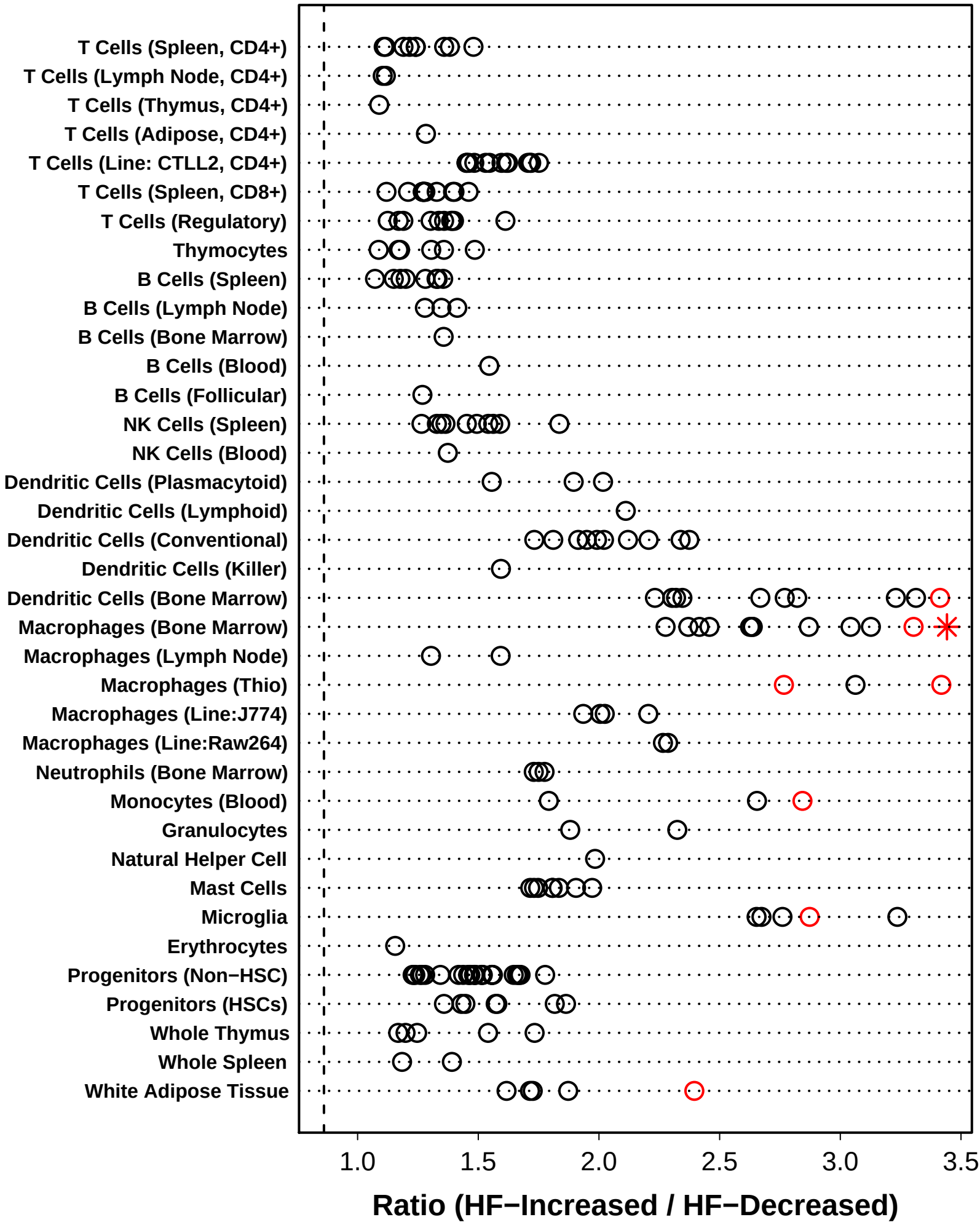


Strain: BALB/cJ; Gender: Female



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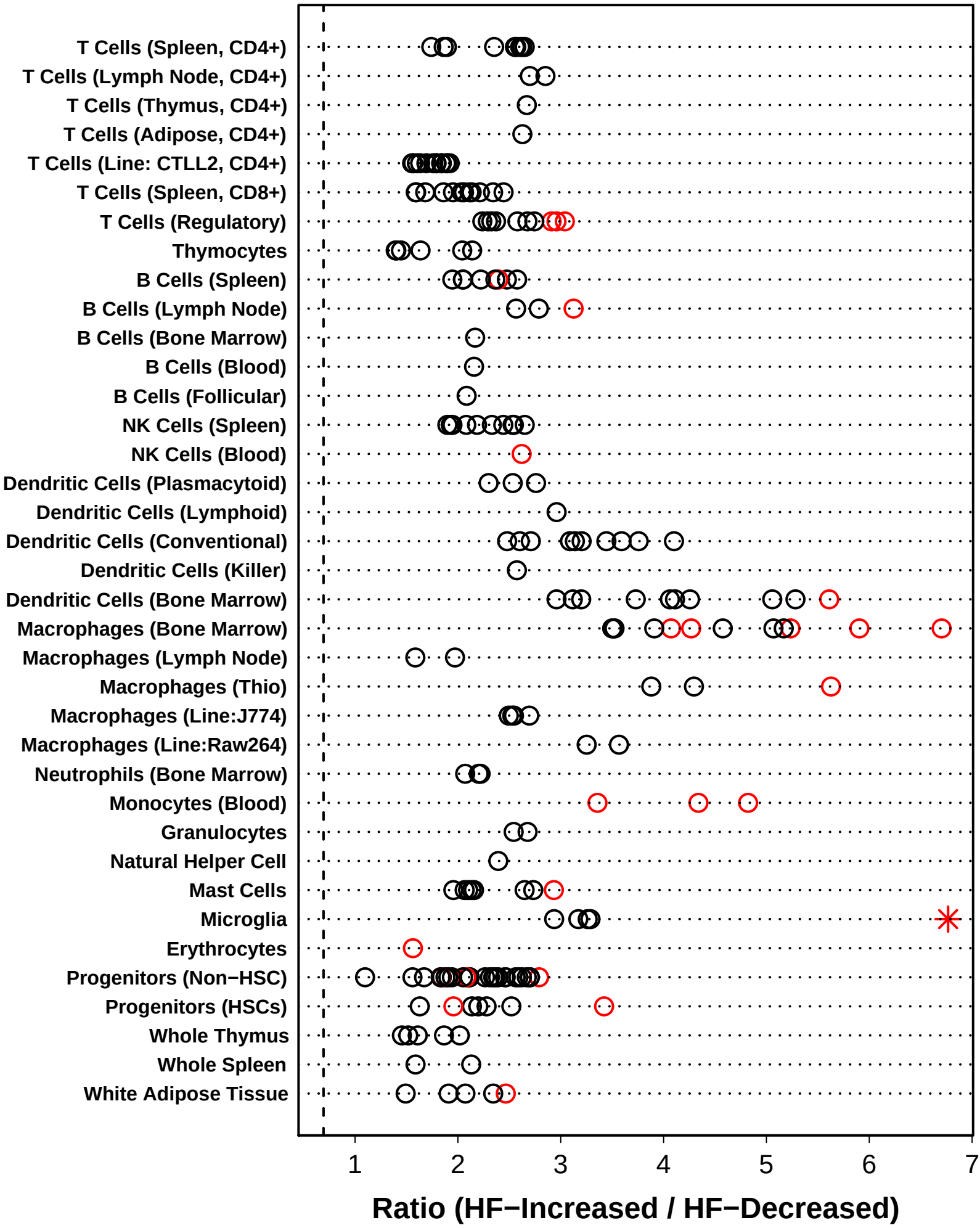
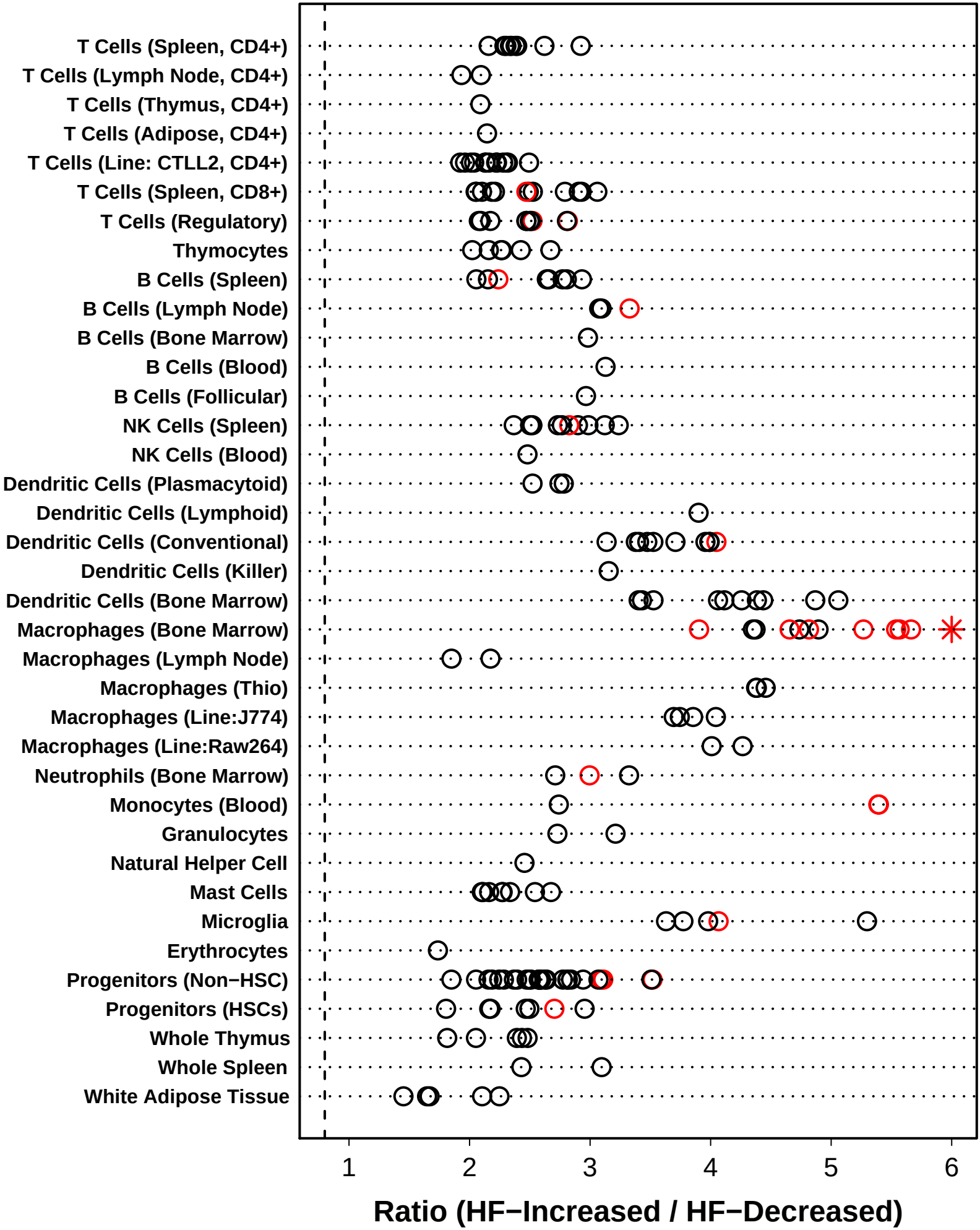


Strain: C3H/HeJ; Gender: Female



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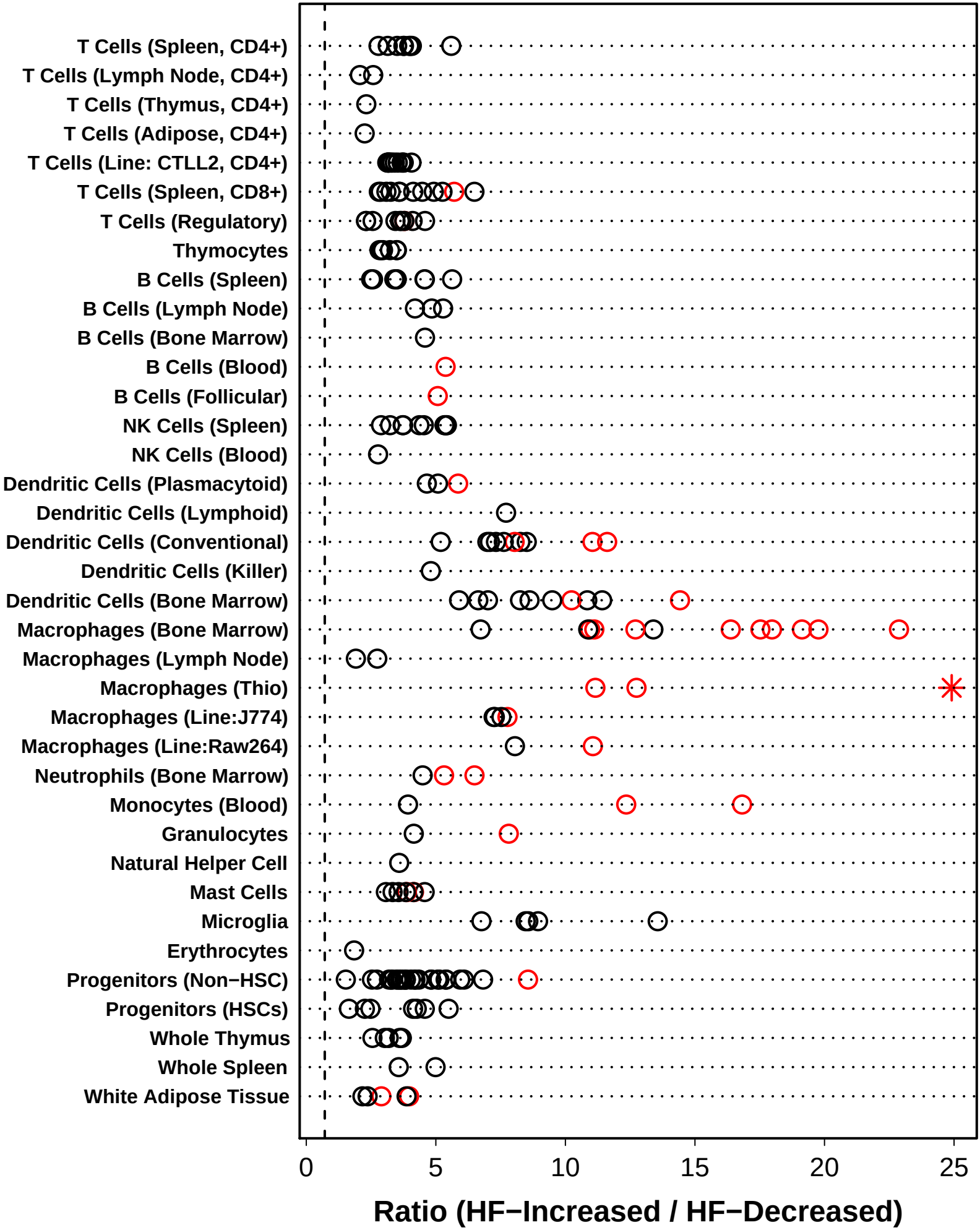
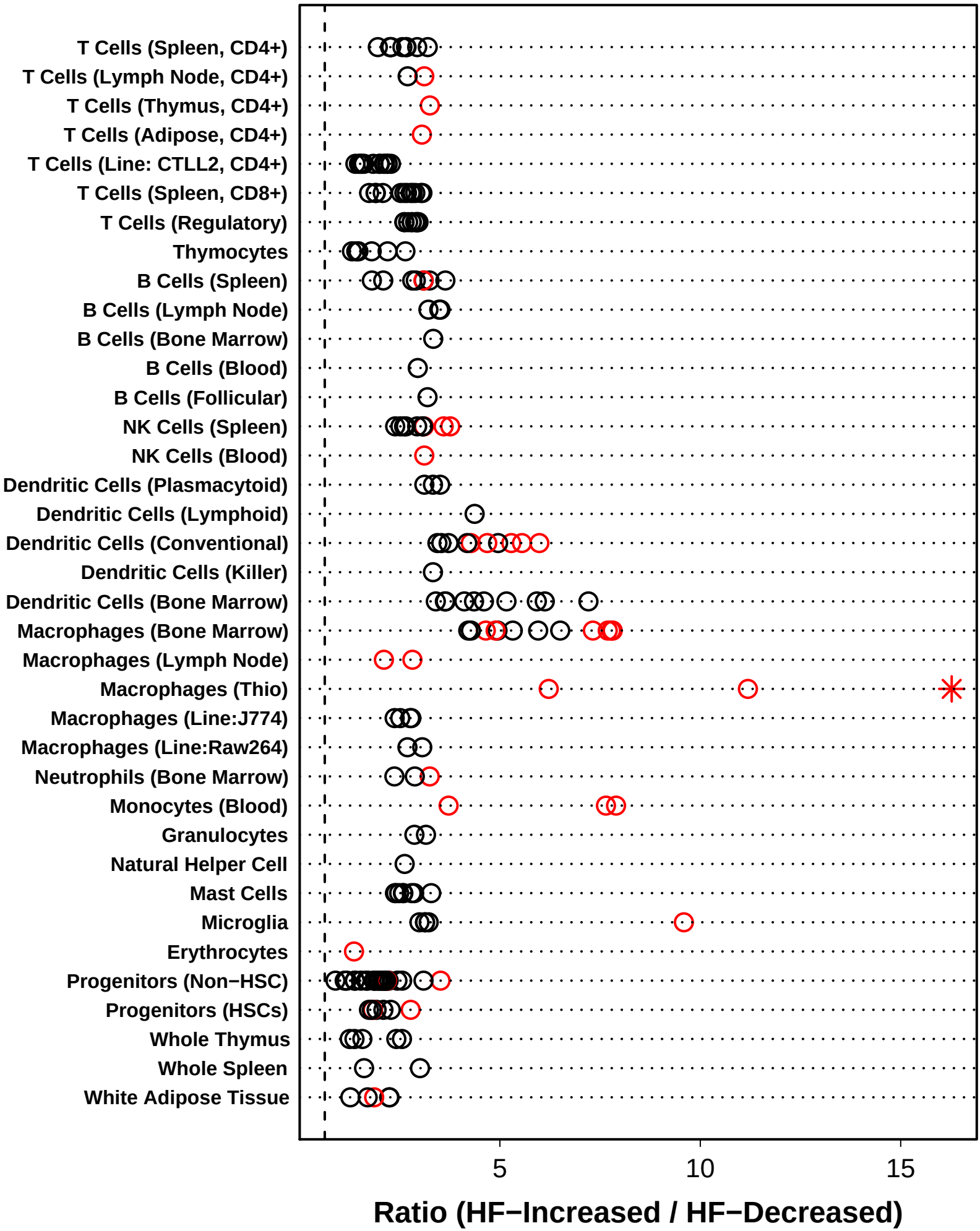
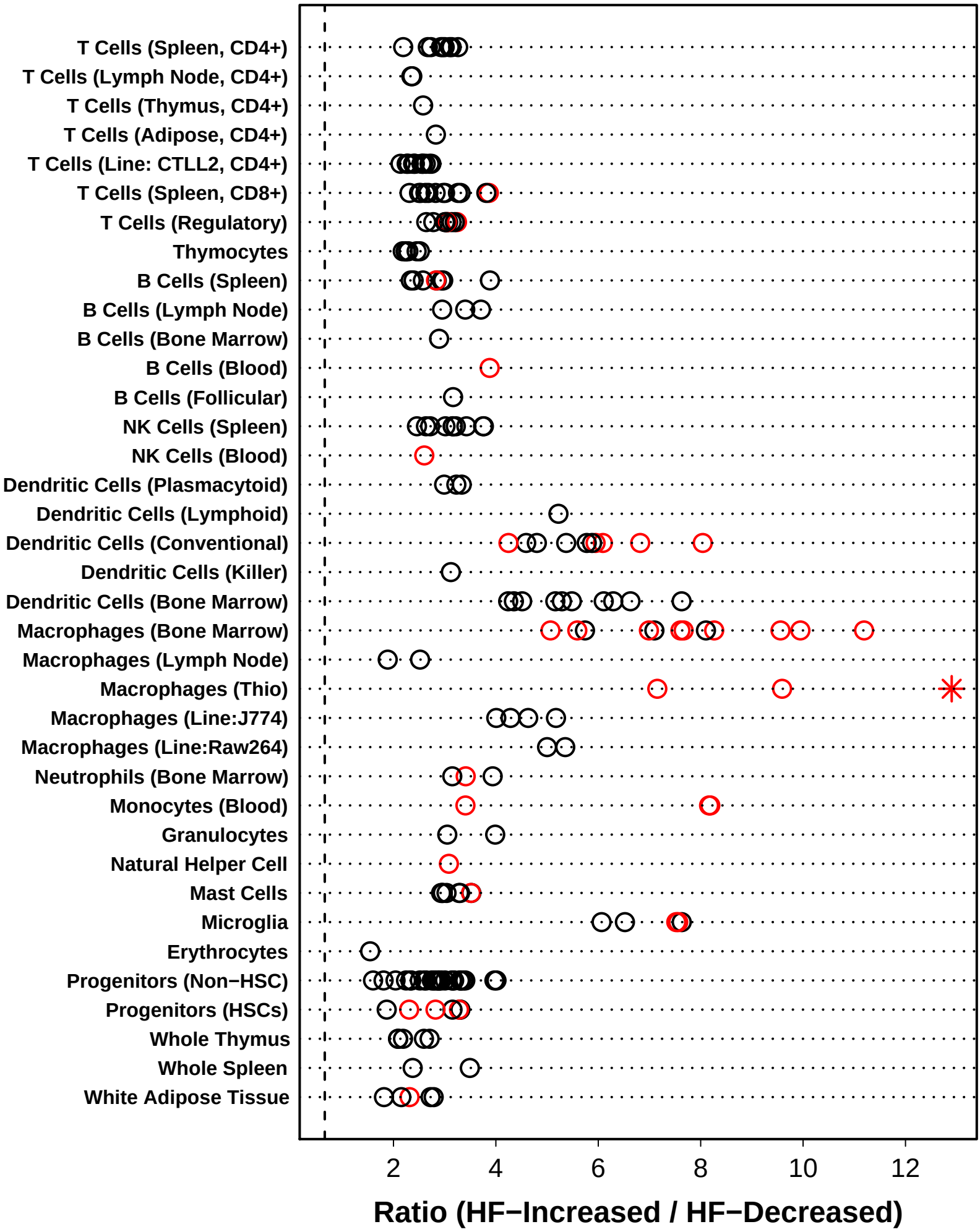


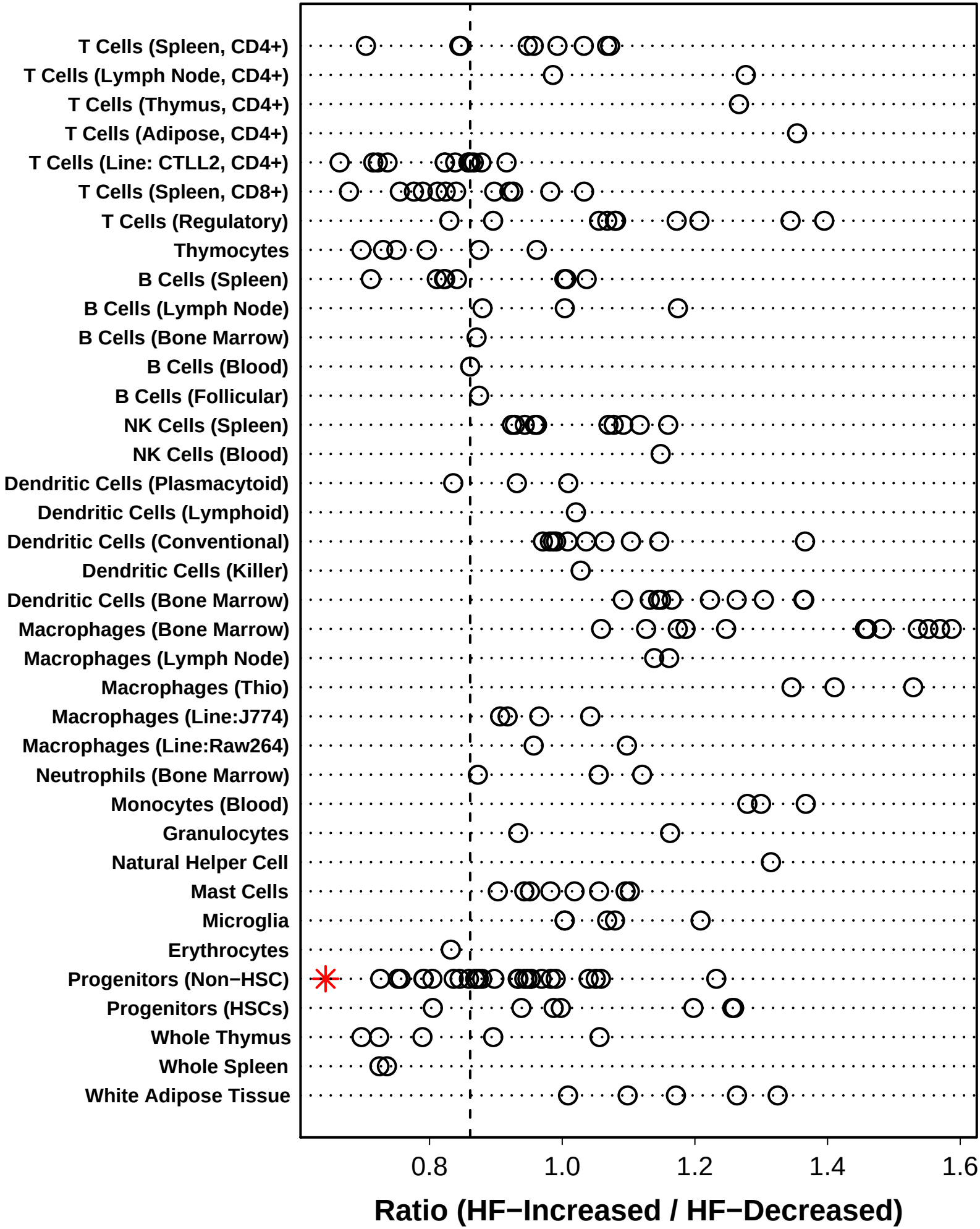
Strain: CAST/EiJ; Gender: Female



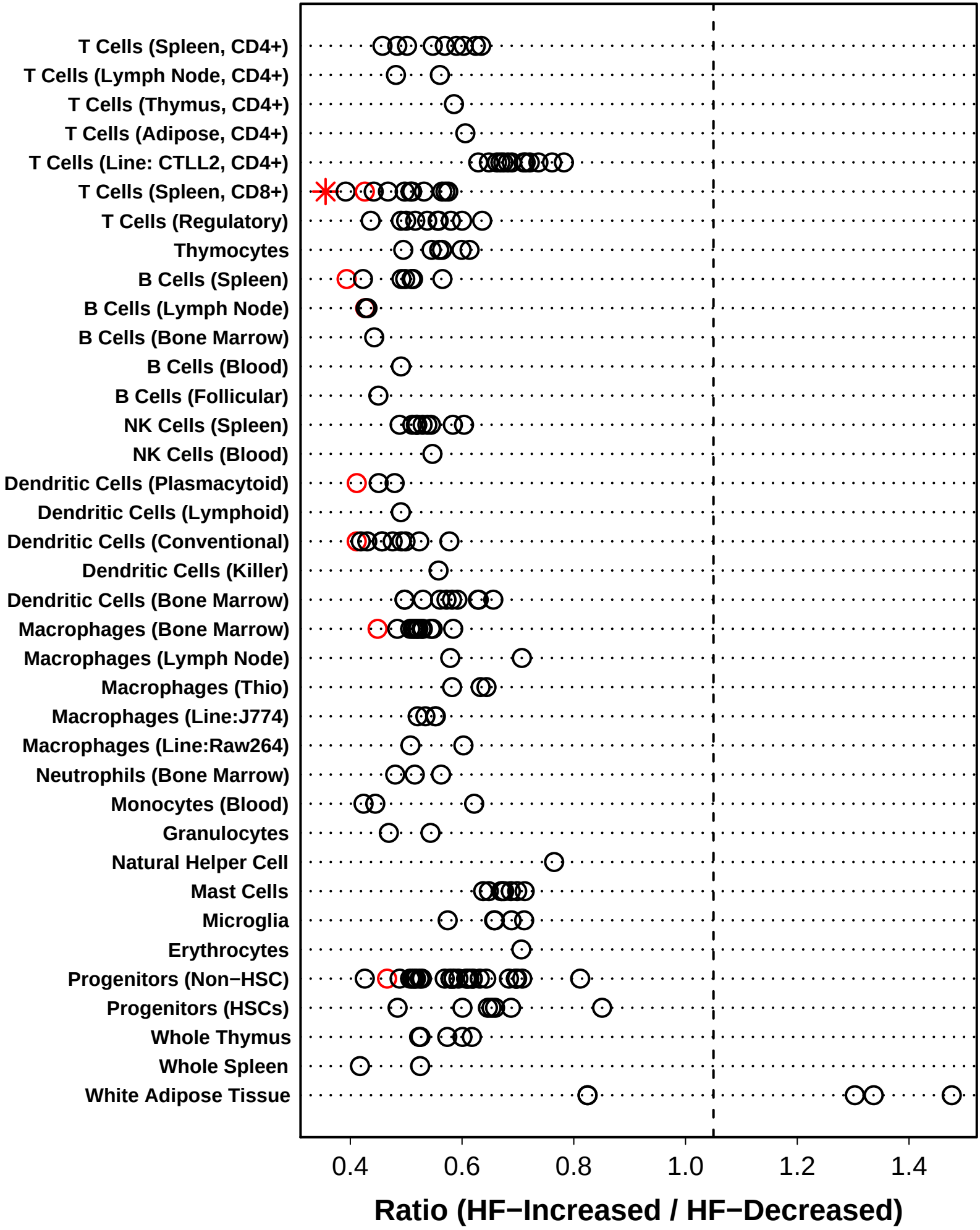
Strain: CAST/EiJ; Gender: Male



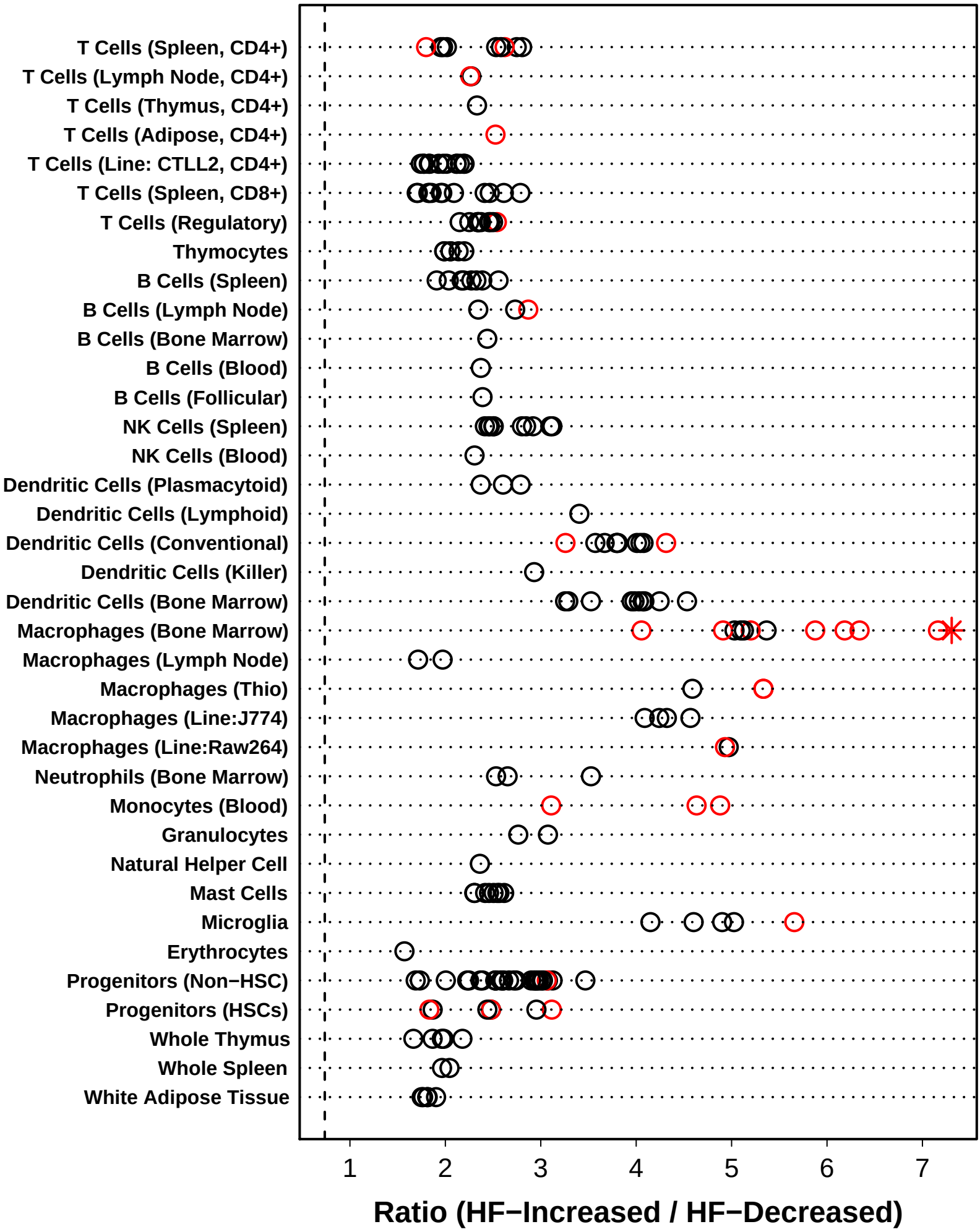
Strain: DBA/2J; Gender: Female



Strain: DBA/2J; Gender: Male



Strain: I/LnJ; Gender: Female



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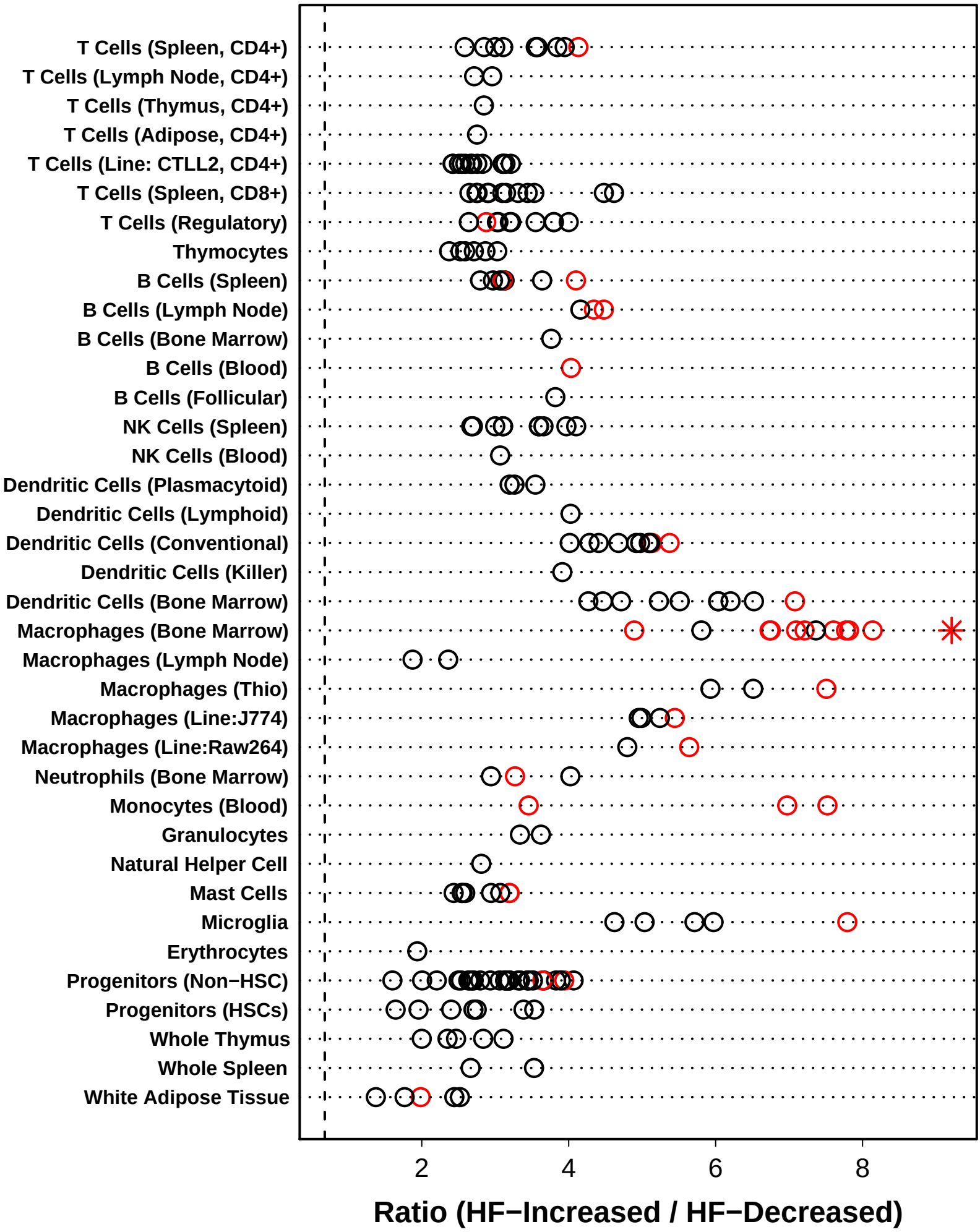
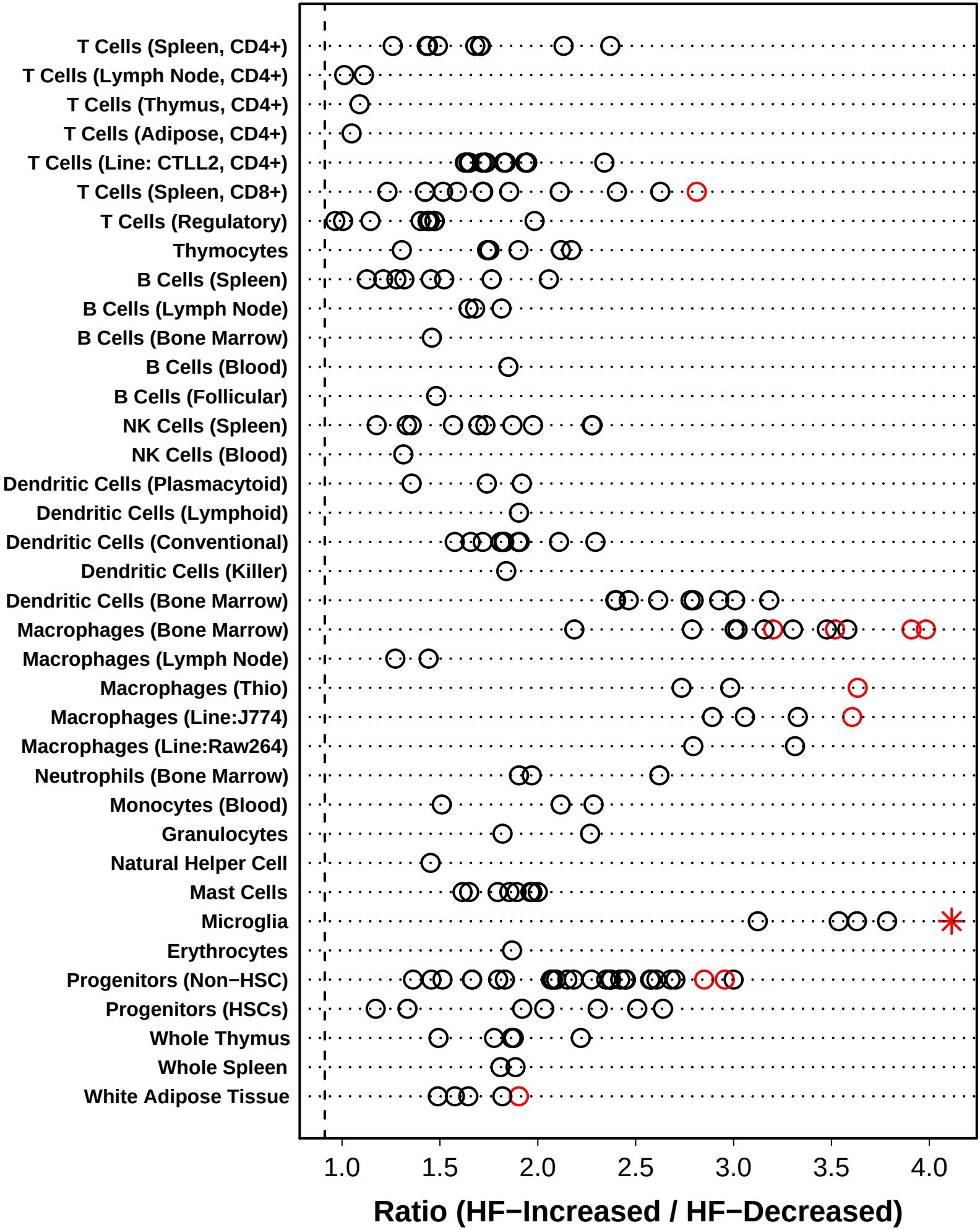
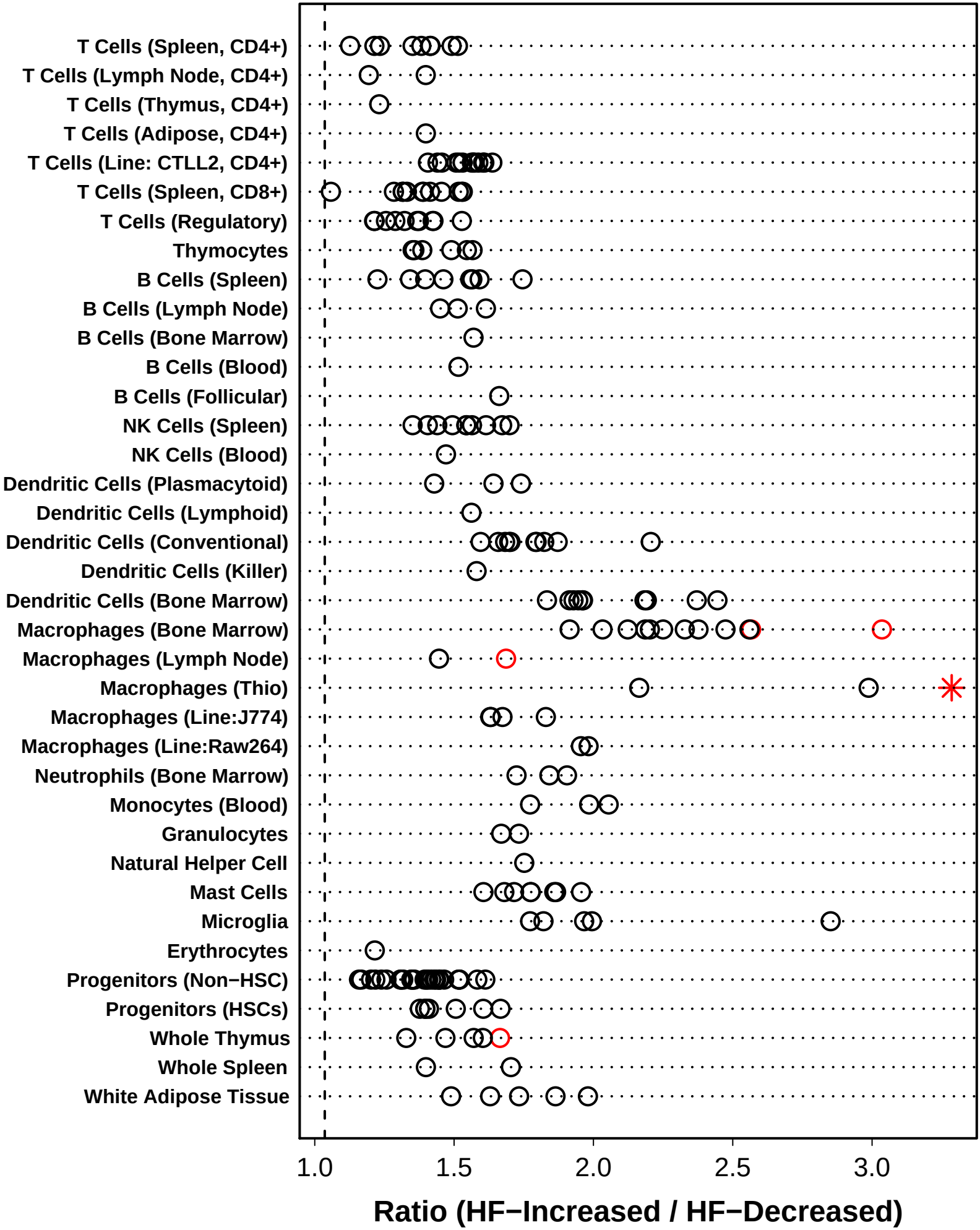


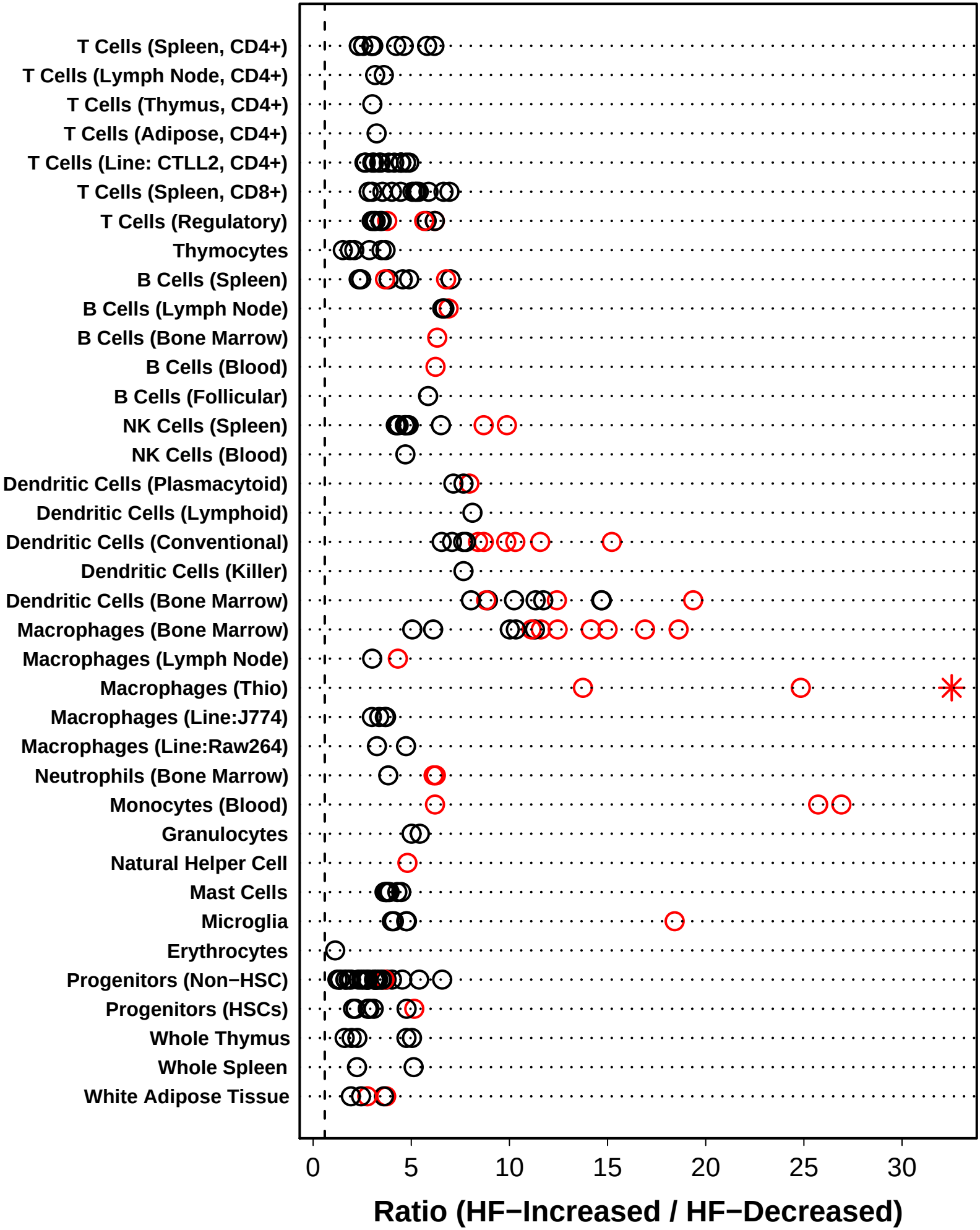
Strain: MRL/MpJ−Tnfrs6lpr/J; Gender: Female



Strain: MRL/MpJ−Tnfrs6lpr/J; Gender: Male



Strain: NZB/BINJ; Gender: Female



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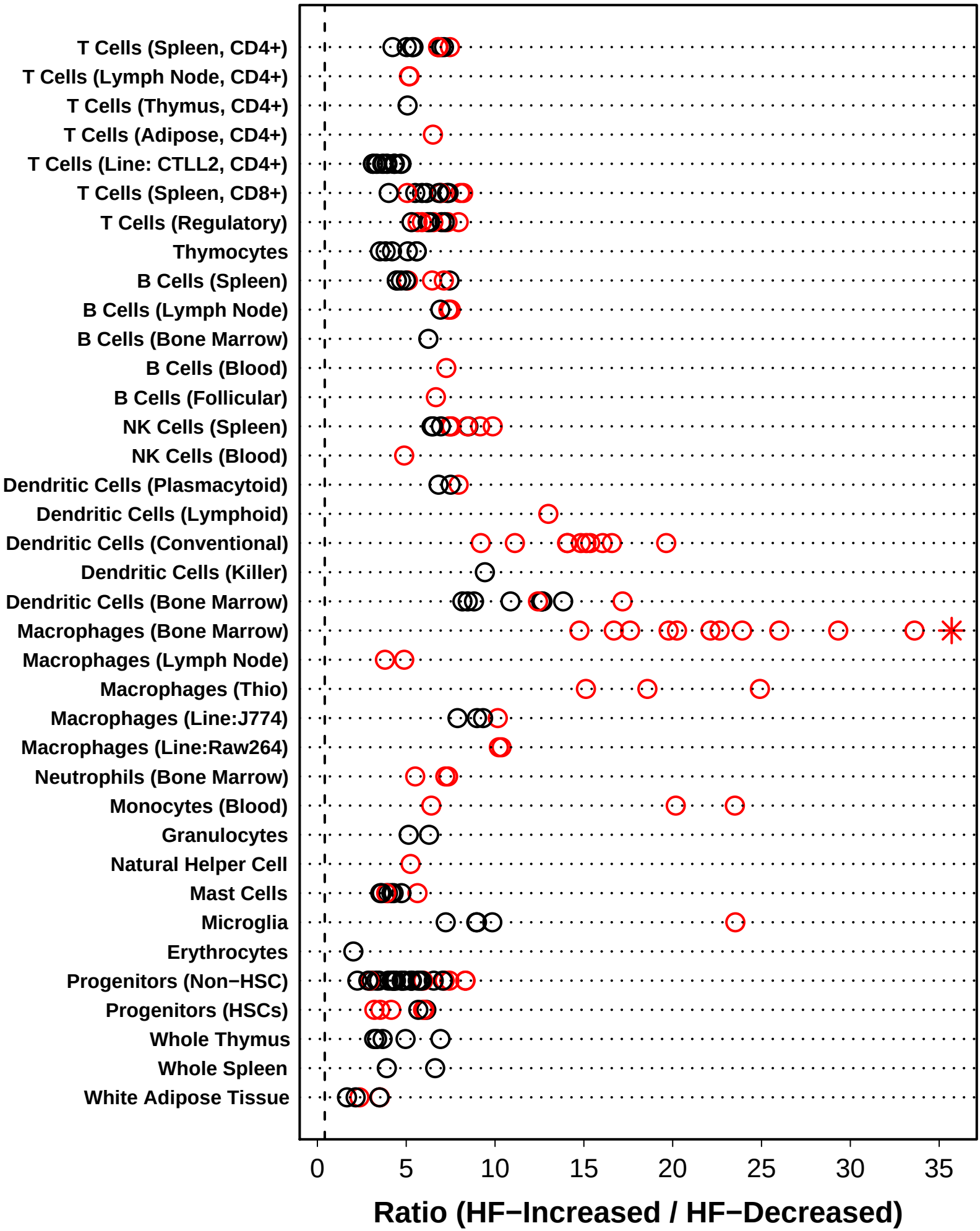
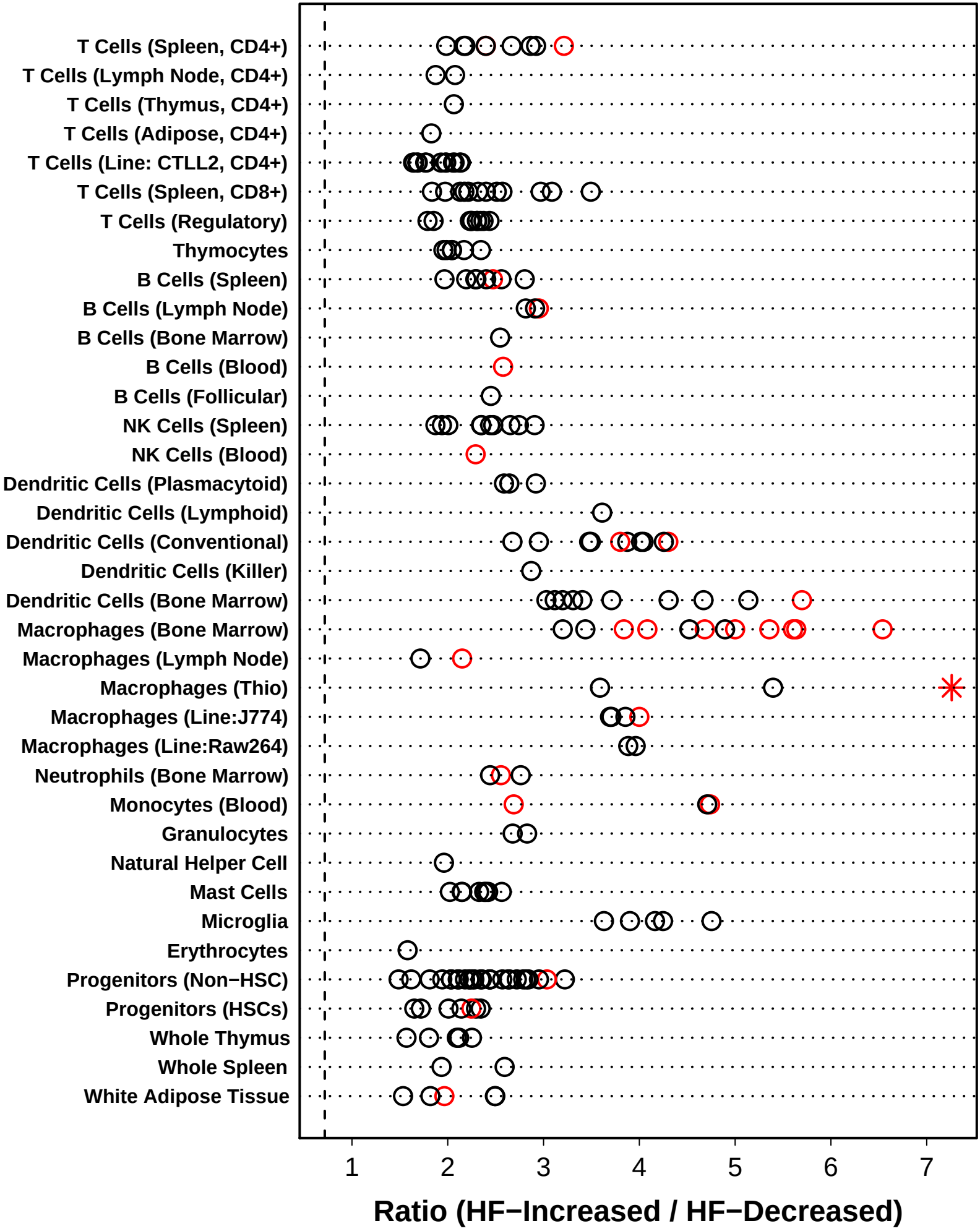


Strain: PERA/Ei; Gender: Female



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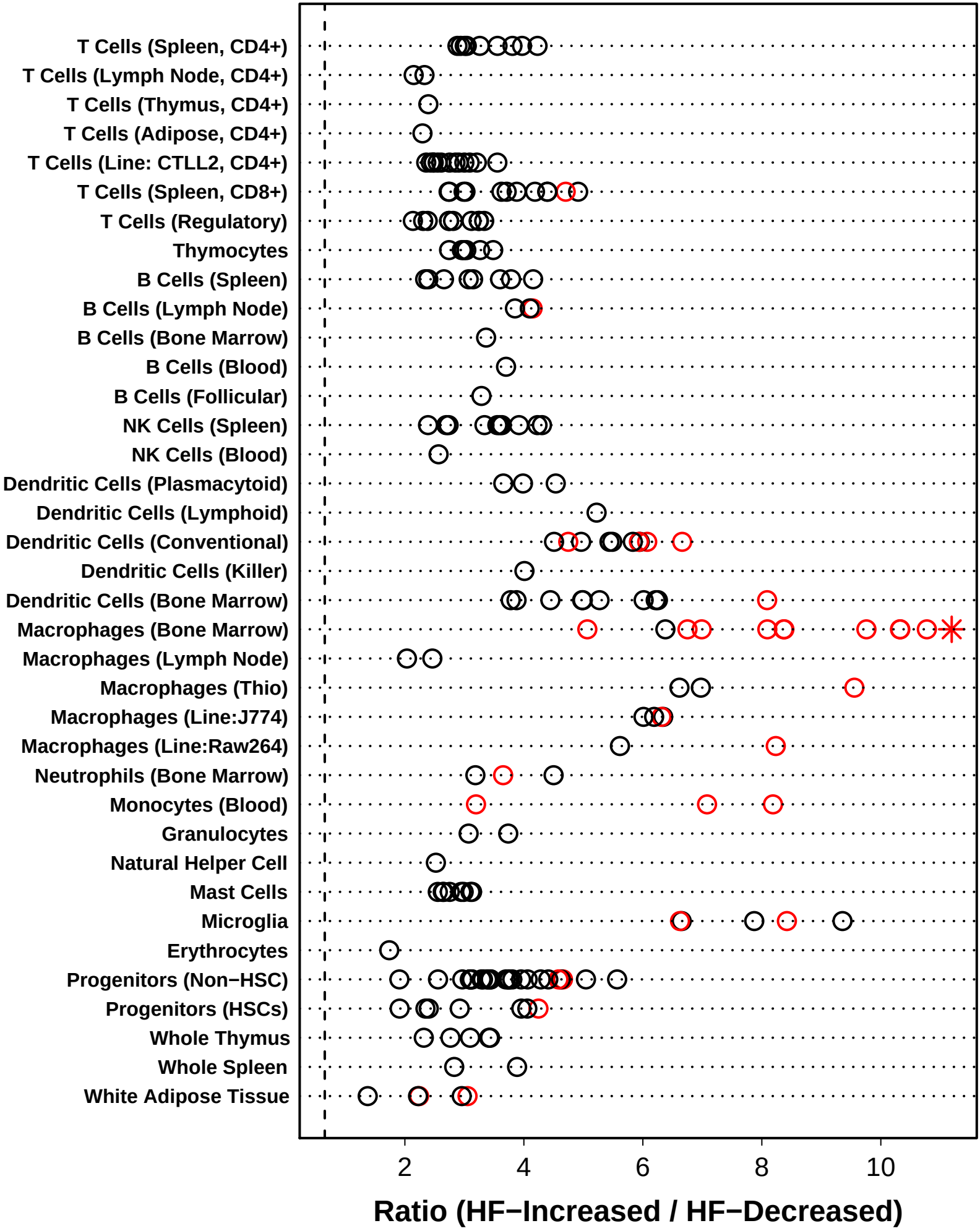

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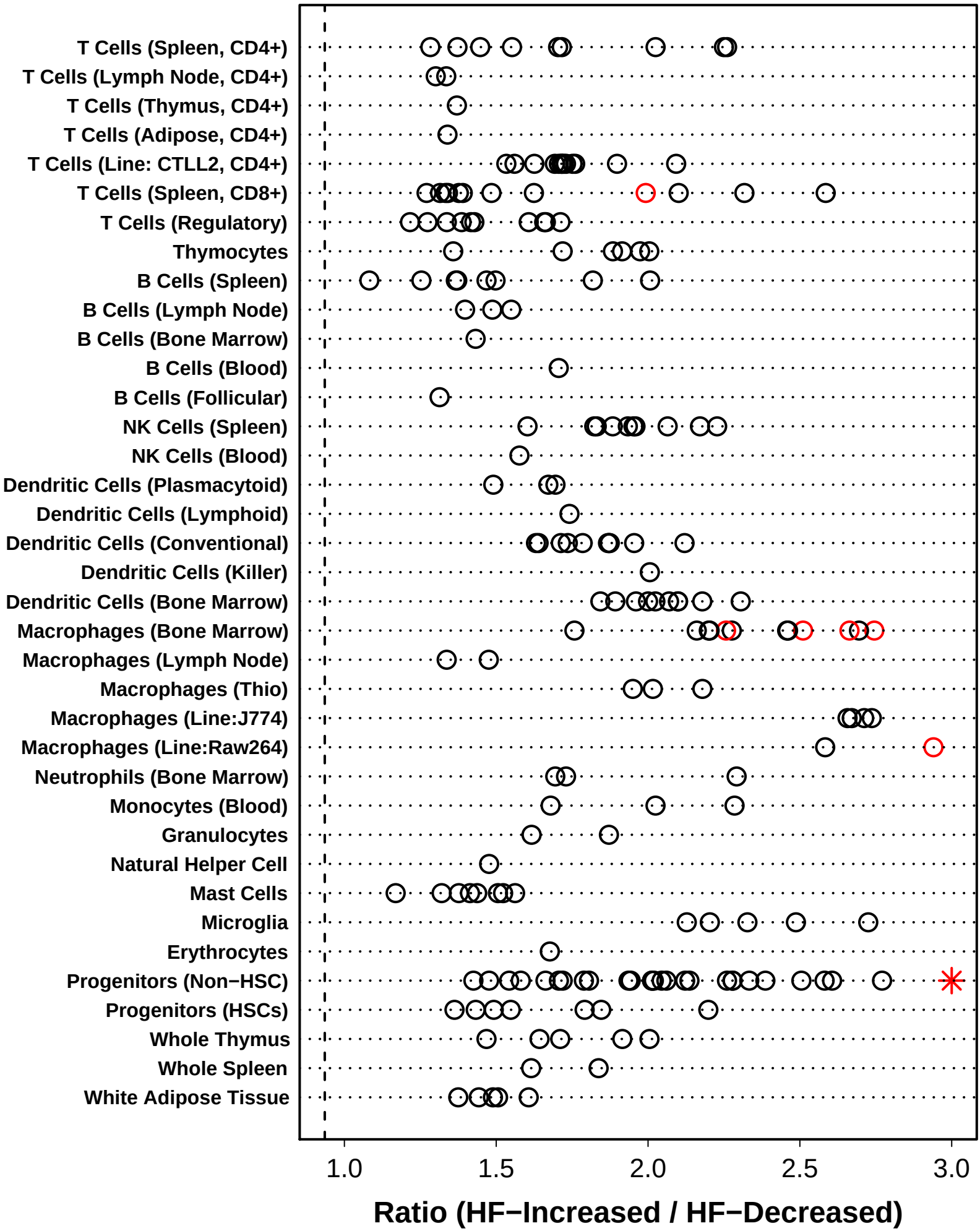

Strain: SM/J; Gender: Male