**S2 Table. Lost data points.**

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| **Figure** | **Value** | **Time point** | **Genotype** | **Data points** | **Reason** |
| 4A | WBC | 24 weeks | *Jmjd1c+/+* | 2 out of 10 | (a) |
| 4A | WBC | 40 weeks | *Jmjd1c+/+* | 1 out of 10 | (b) |
| 4A | RBC | 40 weeks | *Jmjd1c+/+* | 1 out of 10 | (b) |
| 4A | PLT | 8 weeks | *Jmjd1cd/d* | 1 out of 10 | (c) |
| 4A | RETIC | 8 weeks | *Jmjd1c+/+* | 3 out of 10 | (d) |
| 4A | RETIC | 24 weeks | *Jmjd1c+/+* | 3 out of 10 | (d) |
| 4A | RETIC | 24 weeks | *Jmjd1cd/d* | 6 out of 10 | (d) |
| 4A | RETIC | 40 weeks | *Jmjd1c+/+* | 1 out of 10 | (b) |
| 4B | B220+ | 8 weeks | *Jmjd1cd/d* | 1 out of 10 | (e) |
| 4B | B220+ | 24 weeks | *Jmjd1cd/d* | 1 out of 10 | (f) |
| 4B | B220+ | 40 weeks | *Jmjd1c+/+* | 1 out of 10 | (b) |
| 4B | CD3+ | 8 weeks | *Jmjd1cd/d* | 3 out of 10 | (g) |
| 4B | CD3+ | 24 weeks | *Jmjd1cd/d* | 1 out of 10 | (f) |
| 4B | CD3+ | 40 weeks | *Jmjd1c+/+* | 1 out of 10 | (b) |
| 4B | Mac1/Gr1 | 8 weeks | *Jmjd1cd/d* | 3 out of 10 | (i) |
| 4B | Mac1/Gr1 | 24 weeks | *Jmjd1cd/d* | 1 out of 10 | (f) |
| 4C-E/4G | all values | 40 weeks | *Jmjd1c+/+* | 1 out of 10 | (b) |
| 4A-H | all values | all time points | *Jmjd1c+/+* | 1 out of 10 | (h) |
| 5J | MPP | 12 weeks | *Jak2V617F* | 1 out of 7 | (j) |
| S8A | total cells | 40 weeks | *Jmjd1c+/+* | 1 out of 10 | (b) |
| S8A | total cells | 40 weeks | *Jmjd1c+/+* | 1 out of 10 | (h) |
| S8A | total cells | 40 weeks | *Jmjd1c+/+* | 2 out of 10 | (k) |

Legend to S2 Table. **(a)** Result of a technical error in the measurement of the WBC on the ADVIA120. **(b)** Premature death before study end point. **(c)** Technical error in the measurement of the PLTs. **(d)** Defect of the RETIC channel of the ADVIA120. **(e)** Shortage in the supply of B220 antibody. **(f)** We lost all flow data points because the cell count was too low for this mouse at this time point. **(g)** Shortage in the supply of CD3e antibody. **(h)** The genotype of this mouse could not reliably be verified and while it clearly grouped with *Jmjd1+/+* mice in values, all values were excluded henceforth and the mouse was sacrificed. **(i)** The samples were measured with wrong settings of the red laser, a recurrent error reported to the institute by the manager of the core facility. Therefore, we had to exclude the following values: Mac1+/Gr1+ (1,38 %, 2,61 %, 1,77 %) and Mac1+/Gr1- (9,4 %, 12,4 %, 15,7 %). **(j)** The MPP value of one mouse in the *Jak2V617F*-group (0,000098 %) deviates more than 100-fold from the mean (0,022 %) and known reference values obtained in the lab. Therefore, the value was excluded as an outlier. **(k)** In two mice of the *Jmjd1c+/+*-group, the total cell count was only determined in one femur (8,75 and 9,75 x 106 cells). Therefore, these data points are not comparable to the other values (cell count for one femur added to the cell count of one tibia).