**Supplementary File 2. BMAd-lipolysis deficiency causes mild changes in bone marrow hematopoietic cells.**

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| **Ad libitum**  |   | **BMAd-Pnpla2+/+****(n=5)** | **BMAd-Pnpla2-/-****(n=6)** |  |   | **BMAd-Pnpla2+/+** **(n=5)** | **BMAd-Pnpla2-/-****(n=6)** |  |  |
| Counts | Units | Mean | Std | Mean | Std | *P* values | Adjusted *P* | Percentage | Mean | Std | Mean | Std | *P* values | Adjusted *P* |
| BMNC | 10^6/ml | 21.89 | 1.78 | 19.33 | 3.27 | 0.153 | 0.428 | \ | \ | \ | \ | \ | \ |  |
| NE# | 10^6/ml | 13.93 | 1.39 | 11.63 | 1.73 | **0.040\*** | 0.382 | NE% | 63.62 | 3.60 | 60.43 | 3.66 | 0.181 | 0.428 |
| MO# | 10^5/ml | 0.74 | 0.23 | 0.69 | 0.32 | 0.777 | 0.918 | MO% | 0.34 | 0.09 | 0.35 | 0.16 | 0.904 | 0.949 |
| B cell | 10^5/ml | 5.96 | 4.46 | 8.55 | 7.56 | 0.519 | 0.701 | B cell% | 2.86 | 2.40 | 4.11 | 3.53 | 0.519 |  0.701 |
| T cell | 10^5/ml | 8.46 | 3.82 | 5.06 | 2.28 | **0.010\*** | 0.428 | T cell% | 3.8 | 1.53 | 2.68 | 1.35 | 0.229 | 0.433 |
| **HSPCs** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HSC | 10^3/ml | 1.88 | 1.35 | 1.58 | 0.96 | 0.677 | 0.921 | HSC% | 0.008 | 0.005 | 0.009 | 0.006 | 0.774 | 0.921 |
| MPP | 10^3/ml | 2.84 | 1.80 | 1.96 | 1.16 | 0.351 | 0.784 | MPP% | 0.013 | 0.008 | 0.010 | 0.007 | 0.523 | 0.849 |
| GMP | 10^3/ml | 5.36 | 2.44 | 1.85 | 1.48 | **0.01\*** | 0.242 | GMP% | 0.024 | 0.011 | 0.010 | 0.008 | **0.037\*** | 0.242 |
| PreGM | 10^3/ml | 8.59 | 6.78 | 7.38 | 5.06 | 0.742 | 0.921 | PreGM% | 0.039 | 0.031 | 0.039 | 0.026 | >0.9999 | >0.9999 |
| PreMegE | 10^3/ml | 2.38 | 2.31 | 2.00 | 1.34 | 0.740 | 0.921 | PreMegE% | 0.011 | 0.010 | 0.011 | 0.008 | >0.9999 | >0.9999 |
| PreCFUe | 10^3/ml | 0.35 | 0.09 | 0.58 | 0.57 | 0.399 | 0.791 | PreCFUe% | 0.002 | 0.0004 | 0.003 | 0.003 | 0.482 | 0.849 |
| HPC 1 | 10^3/ml | 5.16 | 3.68 | 2.83 | 1.77 | 0.200 | 0.555 | HPC 1% | 0.025 | 0.019 | 0.014 | 0.007 | 0.217 | 0.555 |
| HPC 2 | 10^3/ml | 1.01 | 0.64 | 0.39 | 0.24 | 0.054 | 0.242 | HPC 2% | 0.005 | 0.003 | 0.002 | 0.001 | 0.045 | 0.242 |

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|  **CR** |  | **BMAd-Pnpla2+/+ (n=6)** | **BMAd-Pnpla2-/- (n=7)** |  |  |  |  | **BMAd-Pnpla2+/+** **(n=6)** | **BMAd-Pnpla2-/- (n=7)** |  |
| Counts | Units | Mean | Std | Mean | Std | *P* values | Adjusted *P* | Percentage | Mean | Std | Mean | Std | *P* values | Adjusted *P* |
| BMNC | 10^6/ml | 20.79 | 6.00 | 16.64 | 2.44 | 0.120 | 0.227 |  | \ | \ | \ | \ | \ |  |
| NE# | 10^6/ml | 9.40 | 3.25 | 5.83 | 1.44 | **0.023\*** | 0.065 | NE% | 45 | 4.49 | 34.74 | 5.58 | **0.004\*** | **0.035\*** |
| MO# | 10^5/ml | 1.43 | 0.44 | 1.12 | 0.24 | 0.135 | 0.227 | MO% | 6.89 | 0.99 | 6.71 | 0.88 | 0.735 | 0.686 |
| B cell | 10^5/ml | 41.96 | 21.14 | 52.68 | 10.73 | 0.262 | 0.324 | B cell% | 19.83 | 8.01 | 31.9 | 6.84 | **0.013\*** | 0.057 |
| T cell | 10^5/ml | 10.09 | 6.64 | 7.10 | 1.578 | 0.270 | 0.324 | T cell% | 5.11 | 3.49 | 4.36 | 1.23 | 0.604 | 0.634 |
| **HSPCs** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HSC | 10^3/ml | 1.166 | 0.67 | 0.77 | 0.21 | 0.164 | 0.733 | HSC% | 0.057 | 0.032 | 0.05 | 0.015 | 0.614 | 0.786 |
| MPP | 10^3/ml | 0.93 | 0.31 | 0.79 | 0.20 | 0.347 | 0.733 | MPP% | 0.045 | 0.010 | 0.05 | 0.009 | 0.363 | 0.733 |
| GMP | 10^3/ml | 6.91 | 3.40 | 4.47 | 1.11 | 0.099 | 0.733 | GMP% | 0.33 | 0.114 | 0.27 | 0.046 | 0.26 | 0.733 |
| PreGM | 10^3/ml | 16.57 | 4.85 | 14.72 | 3.48 | 0.441 | 0.733 | PreGM% | 0.812 | 0.170 | 0.88 | 0.174 | 0.493 | 0.733 |
| PreMegE | 10^3/ml | 4.95 | 3.48 | 3.94 | 1.21 | 0.485 | 0.733 | PreMegE% | 0.248 | 0.178 | 0.24 | 0.077 | 0.916 | >0.9999 |
| PreCFUe | 10^3/ml | 5.28 | 2.81 | 4.28 | 1.04 | 0.398 | 0.733 | PreCFUe% | 0.247 | 0.066 | 0.27 | 0.094 | 0.626 | 0.786 |
| HPC 1 | 10^3/ml | 6.76 | 4.32 | 5.25 | 1.66 | 0.409 | 0.733 | HPC 1% | 0.33 | 0.202 | 0.33 | 0.136 | >0.9999 | >0.9999 |
| HPC 2 | 10^3/ml | 16.08 | 12.78 | 10.94 | 2.90 | 0.320 | 0.733 | HPC 2% | 0.8 | 0.652 | 0.68 | 0.255 | 0.661 | 0.786 |

Femoral bone marrow cells from male mice at 24 weeks of age fed *ad libitum* (top) or a 30% CR diet for 6 weeks (bottom) were collected and stained with antibodies for flow cytometry analyses. Mature blood cells and hematopoietic stem/progenitor cells (HSPCs) were counted. Multiple unpaired t tests had been performed crossing all parameters, *P* values were adjusted for multiple comparisons using Two-stage step-up (Benjamini, Krieger, and Yekutieli) with FDR method.