

Supplementary Figure: Experimental design for 12‐week treatment with raspberry ketone in C57BL6 mice.

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| Supplementary Table. Completed blood cell counts for mice with raspberry ketone or vehicle daily dosing for a period of 12 weeks |
|  | LFD\_Veh | HFD\_Veh | HFD\_RKw4 | HFD\_RK |
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| WBC,103/μL |
| NEU, 103/μL |
| LYM, 103/μL |
| MONO, 103/μL |
| EOS, 103/μL |
| BAS, 103/μL |
| NEU % |
| LYM % |
| MONO % |
| EOS % |
| BAS % |
| RBC, 106/μL |
| HGB, g/dL |
| HCT% |
| MCV, fL |
| MCH, pg |
| MCHC, g/dL |
| RDW % |
| PLT, 103/μL |
| MPV, fL |

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| 1.07 ± 0.16 |
| 0.38 ± 0.06 |
| 0.55 ± 0.08 |
| 0.066 ± 0.01 |
| 0.04 ± 0.01 |
| 0.033 ± 0.01 |
| 34.99 ± 1.24 |
| 50.94 ± 2.24 |
| 6.83 ± 1.29 |
| 4.01 ± 0.82 |
| 3.23 ± 0.57 |
| 9.39 ± 0.24 |
| 15.44 ± 0.34 |
| 46.31 ± 1.02 |
| 49.34 ± 0.31 |
| 16.44 ± 0.13 |
| 33.33 ± 0.20 |
| 14.19 ± 0.30 |
| 1004.86 ± 58.52 |
| 5.2 ± 0.07 |

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| 0.99 ± 0.15 |
| 0.29 ± 0.08 |
| 0.57 ± 0.06 |
| 0.03 ± 0.01 |
| 0.051 ± 0.02 |
| 0.04 ± 0.02 |
| 26.39 ± 3.25 |
| 62.73 ± 5.33 |
| 3.49 ± 0.79 |
| 4.70 ± 1.33 |
| 2.70 ± 1.49 |
| 9.19 ± 0.65 |
| 15.28 ± 0.91 |
| 44.53 ± 3.12 |
| 48.48 ± 0.36 |
| 16.80 ± 0.35 |
| 34.64 ± 0.65 |
| 14.10 ± 0.15 |
| 763.63 ±108.78 |
| 5.18 ± 0.11 |

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| 0.79 ± 0.09 |
| 0.37 ± 0.09 |
| 0.36 ± 0.04\* |
| 0.04 ± 0.01 |
| 0.01 ± 0.01 |
| 0.02 ± 0.01 |
| 42.70 ± 5.33& |
| 47.11 ± 5.39 |
| 4.60 ± 0.63 |
| 2.26 ± 0.49 |
| 3.33 ± 0.76 |
| 9.73 ± 0.15 |
| 15.53 ± 0.18 |
| 46.88 ± 0.69 |
| 48.19 ± 0.31 |
| 15.97 ± 0.13 |
| 33.14 ± 0.27 |
| 14.25 ± 0.08 |
| 1040.88 ± 29.45 |
| 4.99 ± 0.07 |

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| 0.72 ± 0.16 |
| 0.29 ± 0.07 |
| 0.33 ± 0.06\*& |
| 0.03 ± 0.01 |
| 0.03 ± 0.02 |
| 0.05 ± 0.02 |
| 37.29 ± 3.43 |
| 49.14 ± 4.21 |
| 4.60 ± 0.93 |
| 3.85 ± 0.96 |
| 5.13 ± 1.40 |
| 8.73 ± 0.40 |
| 14.16 ± 0.61 |
| 42.55 ± 1.86 |
| 48.79 ± 0.30 |
| 16.24 ± 0.08 |
| 33.30 ± 0.20 |
| 13.65 ± 0.13 |
| 841.00 ±120.83 |
| 5.20 ± 0.09 |

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| raspberry ketone (RK); vehicle (Veh); high fat diet (HFD); low fat diet (LFD); white blood cell count (WBC); neutrophils (NEU); lymphocytes (LYM); monocytes (Mono); eosinophils (EOS); red blood cell count (RBC); hemoglobin concentration (HGB); hematocrit (HCT); mean corpuscular volume (MCV); mean corpuscular hemoglobin (MCH); mean corpuscular hemoglobin concentration (MCHC); red blood cell count distribution width coefficient of variation (RDW); platelet count (PLT); mean platelet volume (MPV). Data are represented as means ± SEM. \*p<0.05 vs LFD\_Veh, & p < 0.05 vs. HFD\_Veh; One way ANOVA followed by Newman Keuls post hoc testing. |