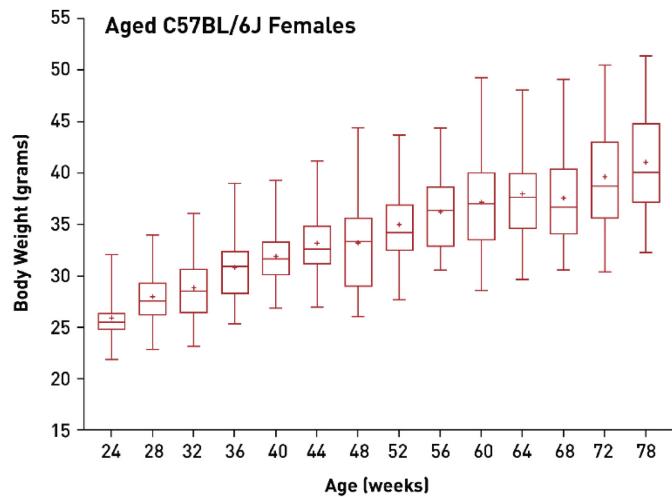
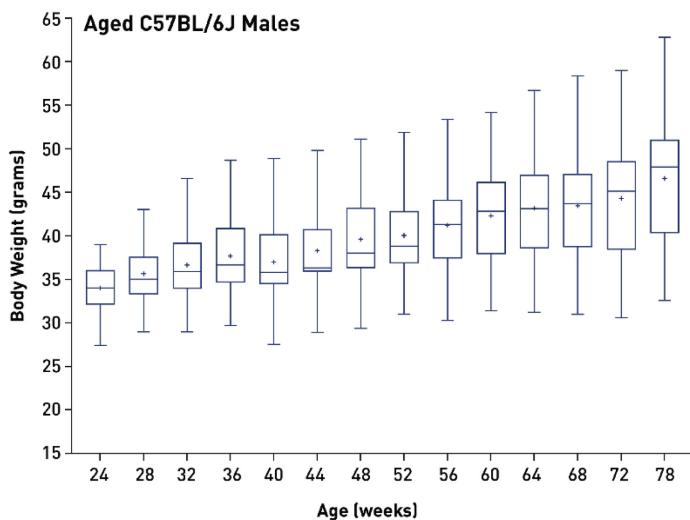


## Physiological Data Summary – Aged C57BL/6J (000664)



Body weight (grams)		
Age (weeks)	Males	Females
24	34.0 ± 2.7	25.9 ± 2.4
28	35.7 ± 3.1	28.0 ± 2.7
32	36.7 ± 3.7	28.9 ± 3.2
36	37.7 ± 4.3	30.8 ± 3.2
40	37.0 ± 4.4	31.9 ± 3.1
44	38.3 ± 4.5	33.2 ± 3.5
48	39.6 ± 4.7	33.2 ± 4.7
52	40.0 ± 4.6	35.0 ± 3.9
56	41.2 ± 4.9	36.2 ± 3.8
60	42.3 ± 5.1	37.2 ± 4.8
64	43.2 ± 5.4	38.0 ± 4.8
68	43.5 ± 5.8	37.6 ± 4.8
72	44.3 ± 6.3	39.7 ± 5.0
78	46.6 ± 6.9	41.1 ± 5.4

Groups of 30 male and 30 female mice were weighed monthly. Mice were fed a diet containing 6% fat (LabDiet® 5K52 formulation).

In the figures above, boxes extend from the 25<sup>th</sup> to 75<sup>th</sup> percentile. The horizontal line in each box shows the median weight and + shows the mean weight. Whiskers extend to maximum and minimum weights.

The table to the left shows the mean and one standard deviation at each age.

Hematology						
Parameter	Units	Females			Males	
Age	Weeks	26	52	78	26	52
White blood cell count (WBC)	10 <sup>3</sup> cells/µL	5.4 ± 2.6	5.3 ± 2.2	3.6 ± 1.8	5.2 ± 1.7	5.1 ± 2.4
Red blood cell count (RBC)	10 <sup>6</sup> cells/µL	8.6 ± 0.7	8.2 ± 0.7	8.3 ± 1.5	8.2 ± 0.6	8.1 ± 0.8
Hemoglobin	g/dL	12.0 ± 0.6	11.4 ± 0.9	11.6 ± 1.4	11.5 ± 0.8	11.2 ± 1.0
Hematocrit	%	38.6 ± 2.8	36.8 ± 3.1	35.4 ± 4.7	36.6 ± 2.0	34.8 ± 3.5
Mean cell volume (MCV)	fL	44.7 ± 1.6	44.9 ± 1.8	43.1 ± 2.8	44.8 ± 2.4	43.1 ± 1.2
Mean cell hemoglobin (MCH)	pg	14.0 ± 0.8	13.9 ± 0.6	14.1 ± 1.0	14.1 ± 0.5	13.9 ± 0.6
Mean cell hemoglobin concentration (MCHC)	g/dL	31.3 ± 1.6	31.0 ± 1.5	32.7 ± 1.5	31.5 ± 1.4	32.3 ± 1.4
Platelet count	10 <sup>3</sup> cells/µL	800 ± 250	816 ± 210	937 ± 275	951 ± 226	852 ± 326
Mean platelet volume (MPV)	fL	5.0 ± 0.5	5.0 ± 0.2	5.5 ± 0.5	5.5 ± 0.8	5.2 ± 0.7
Percent reticulocytes	%	2.9 ± 0.6	2.9 ± 0.5	3.4 ± 0.4	5.3 ± 1.4	4.5 ± 0.6
Reticulocyte hemoglobin	pg	14.5 ± 0.6	14.8 ± 0.6	14.9 ± 0.4	14.3 ± 0.3	14.1 ± 0.5
Reticulocyte count	10 <sup>9</sup> cells/L	233 ± 61	234 ± 62	264 ± 54	453 ± 97	348 ± 81
Percent neutrophils	%	11.4 ± 3.8	10.8 ± 3.7	17.8 ± 11.0	9.0 ± 3.2	13.7 ± 6.7
Percent lymphocytes	%	81.6 ± 6.0	80.8 ± 5.5	74.2 ± 12.0	84.8 ± 4.3	79.1 ± 7.5
Percent monocytes	%	4.2 ± 2.0	5.1 ± 1.8	5.4 ± 2.9	4.5 ± 2.6	4.5 ± 2.5
Percent eosinophils	%	2.2 ± 1.7	2.4 ± 3.9	2.0 ± 2.0	1.4 ± 1.2	2.3 ± 2.8
Percent basophils	%	0.4 ± 0.5	0.3 ± 0.2	0.2 ± 0.2	0.2 ± 0.2	0.3 ± 0.4
Neutrophil count	10 <sup>3</sup> cells/µL	0.64 ± 0.43	0.57 ± 0.30	0.62 ± 0.39	0.47 ± 0.21	0.62 ± 0.31
Lymphocyte count	10 <sup>3</sup> cells/µL	4.39 ± 2.09	4.33 ± 1.85	2.68 ± 1.43	4.39 ± 1.47	4.15 ± 2.05
Monocyte count	10 <sup>3</sup> cells/µL	0.26 ± 0.17	0.28 ± 0.14	0.22 ± 0.17	0.25 ± 0.17	0.26 ± 0.18
Eosinophil count	10 <sup>3</sup> cells/µL	0.09 ± 0.09	0.08 ± 0.10	0.05 ± 0.03	0.06 ± 0.05	0.10 ± 0.16
Basophil count	10 <sup>3</sup> cells/µL	0.03 ± 0.04	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01

Serum Clinical Chemistry (Cardiac Blood)							
Parameter	Units	Females			Males		
Age	Weeks	26	52	78	26	52	78
Albumin	g/dL	2.9 ± 0.2	2.9 ± 0.2	2.8 ± 0.2	2.7 ± 0.1	2.7 ± 0.1	2.8 ± 0.2
Blood urea nitrogen	mg/dL	27 ± 3	25 ± 4	24 ± 3	28 ± 3	28 ± 4	25 ± 3
Total protein	g/dL	5.0 ± 0.2	5.1 ± 0.3	5.2 ± 0.3	4.8 ± 0.2	5.0 ± 0.2	5.4 ± 0.3
Calcium	mg/dL	9.0 ± 0.5	9.3 ± 0.4	9.3 ± 0.3	9.0 ± 0.2	9.2 ± 0.2	9.3 ± 0.3
Cholesterol	mg/dL	76 ± 11	89 ± 14	89 ± 22	97 ± 15	119 ± 16	136 ± 29
LDL cholesterol	mg/dL	4.7 ± 1.2	5.2 ± 0.8	7.0 ± 2.5	3.2 ± 1.1	3.2 ± 0.6	4.6 ± 1.1
HDL cholesterol	mg/dL	57 ± 8	65 ± 10	64 ± 15	71 ± 12	84 ± 9	98 ± 17
Glucose	mg/dL	251 ± 50	242 ± 55	235 ± 54	254 ± 47	225 ± 24	213 ± 31
Triglycerides	mg/dL	113 ± 35	121 ± 49	91 ± 39	116 ± 34	143 ± 43	105 ± 34
Phosphorus	mg/dL	6.9 ± 1.9	6.9 ± 1.4	6.6 ± 1.0	6.8 ± 0.7	7.5 ± 1.0	6.0 ± 1.2
Thyroxine/T4	µg/dL	4.5 ± 0.9	4.0 ± 0.6	3.8 ± 1.1	3.8 ± 0.7	3.8 ± 0.5	3.9 ± 0.5
Sodium	mmol/L	149 ± 5	150 ± 3	150 ± 2	151 ± 2	152 ± 2	146 ± 4
Potassium	mmol/L	3.7 ± 0.4	3.7 ± 0.4	3.8 ± 0.4	4.0 ± 0.2	4.4 ± 0.4	4.3 ± 0.4
Chloride	mmol/L	112 ± 6	112 ± 3	111 ± 3	111 ± 1	114 ± 2	108 ± 4
Carbon dioxide	mmol/L	16.3 ± 3.1	18.6 ± 2.6	20.9 ± 2.0	19.1 ± 1.9	18.8 ± 2.6	21.2 ± 2.5
Free fatty acids	mEq/L	0.95 ± 0.23	0.92 ± 0.23	0.95 ± 0.42	0.78 ± 0.17	0.90 ± 0.25	0.56 ± 0.12

#### Blood Glucose (Submandibular Blood)

Glucose (nonfasted)	mg/dL	154 ± 25	185 ± 29	178 ± 48	196 ± 37	206 ± 33	169 ± 24
Glucose (fasted 16h)	mg/dL	98 ± 14	124 ± 33	119 ± 33	145 ± 24	144 ± 26	182 ± 32

#### Body Composition (DEXA)

Parameter	Units	Females			Males		
Age	Weeks	26	52	78	26	52	78
Body weight (scale)	g	26.4 ± 3.2	39.7 ± 2.8	40.4 ± 4.8	35.8 ± 3.1	36.3 ± 1.8	43.4 ± 5.4
Bone mineral content	g	0.44 ± 0.03	0.50 ± 0.06	0.47 ± 0.04	0.50 ± 0.05	0.56 ± 0.04	0.52 ± 0.07
Bone area	cm²	8.39 ± 0.45	8.87 ± 1.83	8.65 ± 0.83	8.92 ± 0.85	9.54 ± 0.77	9.06 ± 1.17
Bone mineral density	g/cm²	0.052 ± 0.002	0.054 ± 0.003	0.054 ± 0.002	0.057 ± 0.002	0.059 ± 0.003	0.057 ± 0.004
Lean tissue	g	17.1 ± 1.4	19.8 ± 0.8	19.9 ± 1.3	24.4 ± 1.4	26.6 ± 1.3	27.2 ± 2.9
Fat tissue	g	7.2 ± 2.3	17.2 ± 2.7	17.0 ± 4.2	7.9 ± 2.4	6.8 ± 1.3	13.3 ± 3.7
Percent fat tissue	%	29.0 ± 5.3	46.3 ± 4.4	45.5 ± 5.7	24.0 ± 5.6	20.2 ± 3.2	30.6 ± 7.0

#### Organ Weights

Parameter	Units	Females			Males		
Age	Weeks	26	52	78	26	52	78
Brain	g	0.45 ± 0.03	0.46 ± 0.04	0.46 ± 0.03	0.46 ± 0.02	0.46 ± 0.01	0.47 ± 0.02
	% of body weight	1.70 ± 0.20	1.16 ± 0.11	1.16 ± 0.19	1.30 ± 0.14	1.28 ± 0.06	1.09 ± 0.16
Spleen	g	0.09 ± 0.01	0.10 ± 0.02	0.12 ± 0.02	0.10 ± 0.02	0.10 ± 0.01	0.09 ± 0.01
	% of body weight	0.33 ± 0.04	0.26 ± 0.05	0.30 ± 0.08	0.28 ± 0.07	0.27 ± 0.03	0.20 ± 0.03
Left kidney	g	0.14 ± 0.03	0.17 ± 0.02	0.18 ± 0.02	0.20 ± 0.02	0.22 ± 0.03	0.23 ± 0.04
	% of body weight	0.54 ± 0.11	0.43 ± 0.05	0.46 ± 0.10	0.56 ± 0.09	0.60 ± 0.08	0.53 ± 0.11
Right kidney	g	0.14 ± 0.02	0.18 ± 0.02	0.18 ± 0.02	0.19 ± 0.02	0.22 ± 0.02	0.23 ± 0.02
	% of body weight	0.55 ± 0.07	0.45 ± 0.05	0.46 ± 0.09	0.54 ± 0.09	0.61 ± 0.04	0.53 ± 0.09
Liver	g	1.12 ± 0.16	1.57 ± 0.14	1.58 ± 0.25	1.52 ± 0.20	1.60 ± 0.07	2.03 ± 0.38
	% of body weight	4.21 ± 0.38	3.96 ± 0.29	3.92 ± 0.43	4.23 ± 0.32	4.42 ± 0.23	4.65 ± 0.45
Heart	g	0.12 ± 0.01	0.13 ± 0.01	0.14 ± 0.01	0.16 ± 0.02	0.17 ± 0.02	0.17 ± 0.02
	% of body weight	0.44 ± 0.05	0.34 ± 0.04	0.34 ± 0.05	0.46 ± 0.08	0.48 ± 0.05	0.40 ± 0.06

Spleen Flow Cytometry							
Parameter	Units	Females			Males		
Age	Weeks	26	52	78	26	52	78
B Cells (B220+)	% viable cells	66.1 ± 3.4	65.9 ± 4.3	56.4 ± 7.7	61.7 ± 4.3	62.1 ± 2.8	70.0 ± 4.0
T Cells (CD3e+)	% viable cells	23.3 ± 2.9	17.3 ± 2.3	15.1 ± 3.3	19.7 ± 2.4	18.9 ± 1.7	18.5 ± 2.8
Helper T Cells (CD3e+, CD4+)	% viable cells	13.7 ± 1.5	11.2 ± 1.0	10.5 ± 2.3	11.5 ± 1.5	11.1 ± 1.1	10.9 ± 1.8
Effector/Effecter Memory (CD44 High, CD62 Low)	% viable CD4+ cells	35.2 ± 5.8	65.0 ± 10.4	81.1 ± 5.9	26.7 ± 2.4	38.2 ± 4.3	50.8 ± 7.6
Central Memory (CD44 High, CD62 High)	% viable CD4+ cells	6.5 ± 0.9	6.3 ± 1.5	7.4 ± 2.1	6.3 ± 1.1	6.1 ± 1.0	8.7 ± 1.7
Naive (CD44 Low, CD62 High)	% viable CD4+ cells	54.4 ± 6.3	23.2 ± 10.3	8.0 ± 3.8	63.4 ± 3.0	48.2 ± 6.1	36.1 ± 8.5
Activated Effector (CD44 Low, CD62 Low)	% viable CD4+ cells	3.8 ± 1.2	5.7 ± 3.1	3.5 ± 1.5	3.7 ± 0.9	7.6 ± 3.7	4.4 ± 1.5
Cytotoxic T Cells (CD3e+, CD8+)	% viable cells	8.0 ± 1.4	5.0 ± 1.6	3.7 ± 1.1	7.0 ± 1.0	6.9 ± 0.7	6.8 ± 1.2
Effector/Effecter Memory (CD44 High, CD62 Low)	% viable CD8+ cells	6.0 ± 4.1	21.7 ± 4.4	37.8 ± 8.5	6.8 ± 3.8	14.9 ± 5.4	16.6 ± 8.9
Central Memory (CD44 High, CD62 High)	% viable CD8+ cells	12.4 ± 2.6	12.9 ± 3.8	23.6 ± 7.5	14.7 ± 2.7	19.4 ± 3.8	27.4 ± 4.3
Naive (CD44 Low, CD62 High)	% viable CD8+ cells	74.0 ± 8.7	40.8 ± 10.0	17.6 ± 7.7	71.1 ± 7.9	53.4 ± 11.4	48.9 ± 10.2
Activated Effector (CD44 Low, CD62 Low)	% viable CD8+ cells	7.5 ± 6.5	24.6 ± 9.3	21.0 ± 10.8	7.4 ± 5.4	12.4 ± 8.6	7.1 ± 4.5
Double Negative T Cells (CD3e+, CD4-, CD8-)	% viable cells	6.6 ± 0.7	6.0 ± 0.8	5.7 ± 0.7	5.2 ± 0.7	4.2 ± 0.5	3.9 ± 0.6
Effector/Effecter Memory (CD44 High, CD62 Low)	% viable DN cells	33.4 ± 9.9	46.5 ± 5.3	54.3 ± 11.3	33.7 ± 6.1	38.1 ± 6.3	41.4 ± 5.0
Central Memory (CD44 High, CD62 High)	% viable DN cells	33.2 ± 7.2	20.1 ± 8.9	17.7 ± 8.6	33.9 ± 5.1	29.8 ± 6.1	35.6 ± 7.1
Naive (CD44 Low, CD62 High)	% viable DN cells	22.2 ± 4.3	13.7 ± 2.5	8.5 ± 3.4	21.5 ± 3.9	17.7 ± 2.7	13.3 ± 3.2
Activated Effector (CD44 Low, CD62 Low)	% viable DN cells	11.2 ± 2.3	19.7 ± 9.2	19.6 ± 9.2	10.9 ± 2.1	14.4 ± 3.4	9.7 ± 4.0
Regulatory T Cells (CD3e+, CD4+, CD25+)	% viable CD4+ cells	14.7 ± 1.5	17.2 ± 2.0	21.5 ± 2.2	14.2 ± 1.3	16.1 ± 0.8	17.3 ± 1.3
NK T Cells (CD3e+, CD49b+)	% viable cells	0.87 ± 0.12	0.54 ± 0.14	0.60 ± 0.24	0.47 ± 0.07	0.42 ± 0.10	0.49 ± 0.09
NK Cells (CD3-, B220-, CD49b+)	% viable cells	0.82 ± 0.13	0.63 ± 0.19	0.73 ± 0.15	0.67 ± 0.12	0.52 ± 0.06	0.49 ± 0.11
Monocytes (CD11b+, SSC Low, Gr1-)	% viable cells	1.87 ± 0.34	2.05 ± 0.37	2.49 ± 0.93	2.10 ± 0.24	1.31 ± 0.15	1.45 ± 0.16
CD62L+ Monocytes	% viable monocytes	44.5 ± 8.1	38.9 ± 8.9	33.0 ± 8.1	39.6 ± 5.9	33.5 ± 5.6	35.3 ± 5.2
CD62L- Monocytes	% viable monocytes	55.5 ± 8.1	60.1 ± 8.9	66.1 ± 8.4	59.6 ± 5.9	65.6 ± 5.5	63.8 ± 5.2
Neutrophils/Granulocytes (CD11b+, Gr1+)	% viable cells	0.57 ± 0.11	0.90 ± 0.24	1.34 ± 1.23	0.70 ± 0.23	1.13 ± 0.66	0.64 ± 0.13
Eosinophils (CD11b+, SSC High)	% viable cells	0.29 ± 0.09	0.32 ± 0.10	0.37 ± 0.09	0.29 ± 0.08	0.24 ± 0.06	0.20 ± 0.04
Dendritic Cells (CD11b+, SSC Low, CD11c+)	% viable cells	0.60 ± 0.13	0.64 ± 0.12	0.81 ± 0.17	0.66 ± 0.09	0.53 ± 0.05	0.75 ± 0.11
Plasmacytoid Dendritic Cells (CD11b+, B220+)	% viable cells	0.34 ± 0.09	0.33 ± 0.06	0.47 ± 0.09	0.28 ± 0.05	0.19 ± 0.02	0.22 ± 0.06