



TACONIC

Phenotypic Baseline Data on Transgenic Mouse Models

Parameter	Units	rash2 Hemizygous Males	rash2 Hemizygous Females	rash2 - W (non-tg) Males	rash2 - W (non-tg) Females	p53N5 Heterozygous Males	p53N5 Heterozygous Females	p53N5 WildType Males	p53N5 WildType Females	mdr1a Homozygous Males	mdr1a Homozygous Females	TG.AC Hemizygous Males	TG.AC Hemizygous Females	FVB Males	FVB Females	B6 Males	B6 Females
Serum Chemistry																	
	avg ± S.D.	n=10	n=10	n=10	n=10	n=10	n=10	n=10	n=8	n=10	n=10	n=10	n=10	n=10	n=10	n=10	
Calcium	mg/dL	11.3 ± 0.4	10.9 ± 0.1	10.9 ± 0.3	10.6 ± 0.1	11.3 ± 0.4	10.1 ± 0.7	10.8 ± 0.2	11.1 ± 0.3	10.9 ± 0.2	10.5 ± 0.3	10.5 ± 1.1	9.9 ± 1.1	11.0 ± 0.5	10.7 ± 0.3	10.4 ± 0.8	10.3 ± 0.5
Phosphorous	mg/dL	10.6 ± 1.0	9.1 ± 0.9	10.7 ± 1.7	8.6 ± 0.8	10.5 ± 2.0	9.9 ± 1.4	8.9 ± 2.0	9.4 ± 1.4	10.4 ± 1.3	8.7 ± 0.9	10.4 ± 1.3	9.1 ± 1.3	10.5 ± 1.5	10.3 ± 1.9	10.5 ± 1.1	10.2 ± 1.2
Glucose	mg/dL	124 ± 26	98 ± 7	118 ± 21	117 ± 16	144 ± 17	110 ± 16	154 ± 51	192 ± 18	179 ± 15	134 ± 22	158 ± 31	130 ± 25	192 ± 25	156 ± 20	167 ± 29	155 ± 15
Creatinine	mg/dL	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.2 ± 0.1	0.2 ± 0	0.2 ± 0.1	0.1 ± 0.1	0.2 ± 0.1	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.1 ± 0	N/a	N/a	N/a
BUN	mg/dL	26 ± 5	17 ± 3	23 ± 4	23 ± 5	26 ± 6	21 ± 4	23 ± 3	24 ± 2	22 ± 3	21 ± 3	25.6 ± 1.5	18.9 ± 4.5	22 ± 2	19 ± 4	25 ± 4	25 ± 4
Total Bilirubin	mg/dL	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.1 ± 0.1	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.1 ± 0	0.1 ± 0	N/a	N/a	N/a
ALK	U/L	167 ± 20	185 ± 13	175 ± 32	208 ± 21	145 ± 16	207 ± 25	129 ± 10	149 ± 10	174 ± 22	166 ± 12	84 ± 23	196 ± 42	175 ± 12	248 ± 56	165 ± 17	259 ± 58
ALT	U/L	24 ± 6	32 ± 23	30 ± 5	25 ± 5	22 ± 5	16 ± 3	26 ± 6	27 ± 3	48 ± 10	44 ± 7	38 ± 6	44 ± 33	35 ± 12	47 ± 51	86 ± 160	90 ± 150
Total Protein	g/dL	6.3 ± 0.2	6.0 ± 0.1	6.3 ± 0.2	6.0 ± 0.2	6.6 ± 0.3	6.2 ± 0.5	6.3 ± 0.2	5.7 ± 0.7	5.6 ± 0.2	5.7 ± 0.7	5.5 ± 0.6	5.9 ± 0.1	5.6 ± 0.2	6.1 ± 0.4	6.2 ± 0.3	
Blood Counts																	
Erythron																	
Red Blood Cells	X10^6/uL	11.27 ± 0.42	11.04 ± 0.18	10.86 ± 0.52	10.65 ± 0.27	10.8 ± 0.2	10.44 ± 0.29	10.6 ± 0.34	10.5 ± 0.4	9.61 ± 0.55	9.70 ± 0.37	9.55 ± 0.45	10.06 ± 0.35	10.32 ± 0.34	9.89 ± 0.44	8.364 ± 0.610	8.894 ± 0.436
Nucleated RBC	X10^6/uL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 ± 0	0 ± 0
Hemoglobin	g/dL	18.1 ± 0.6	17.6 ± 0.4	17.6 ± 0.8	17.0 ± 0.3	16.6 ± 0.3	16.5 ± 0.5	16.5 ± 0.3	16.4 ± 0.6	15.5 ± 0.7	15.7 ± 0.4	14.1 ± 0.7	15.1 ± 0.5	15.7 ± 0.5	15.6 ± 0.7	13.1 ± 0.9	15.2 ± 0.6
Hematocrit	%	53.7 ± 1.9	51.0 ± 1.1	50.4 ± 2.4	48.1 ± 0.8	51.0 ± 0.3	50.2 ± 1.3	50.5 ± 1.2	48.7 ± 1.6	48.2 ± 2.4	48.4 ± 1.7	47.1 ± 2.1	48.8 ± 1.7	50.2 ± 1.3	50.4 ± 2.2	41.8 ± 3.3	48.8 ± 1.8
MCV	fL	48 ± 1	46 ± 0	47 ± 1	45 ± 1	47 ± 1	48 ± 0	47 ± 1	47 ± 1	50 ± 1	50 ± 0	49.3 ± 0.5	48.5 ± 0.5	49 ± 1	51 ± 1	50 ± 2	49 ± 1
MCH	pg	16.1 ± 0.2	15.9 ± 0.2	16.2 ± 0.3	16.0 ± 0.3	15.4 ± 0.2	15.8 ± 0.3	15.5 ± 0.3	15.6 ± 0.3	16.0 ± 0.2	16.1 ± 0.2	14.7 ± 0.2	15.1 ± 0.3	15.2 ± 0.5	15.8 ± 0.2	15.7 ± 0.3	15.4 ± 0.3
MCHC	%	33.7 ± 0.5	34.4 ± 0.3	34.9 ± 0.9	35.4 ± 0.4	32.5 ± 0.5	32.9 ± 0.7	32.7 ± 0.5	33.6 ± 0.5	32.1 ± 0.4	32.3 ± 0.4	29.9 ± 0.4	31.0 ± 0.4	31.3 ± 1	31.0 ± 0.4	31.5 ± 0.7	31.2 ± 0.4
Platelets																	
Platelets	X10^3/uL	1365 ± 150	1265 ± 211	1497 ± 133	1256 ± 119	1568 ± 113	1228 ± 212	1493 ± 84	1393 ± 89	1336 ± 59	1267 ± 152	1919 ± 134	1544 ± 106	1442 ± 124	1616 ± 184	1775 ± 171	1336 ± 82
Leukogram																	
White Blood Cells	X10^3/uL	5.00 ± 1.46	4.723 ± 0.894	5.30 ± 2.75	4.78 ± 1.97	3.46 ± 1.16	3.474 ± 1.858	4.11 ± 1.2	4.0 ± 1.3	6.44 ± 1.81	9.30 ± 2.51	7.30 ± 1.29	5.526 ± 1.759	5.28 ± 1.32	6.97 ± 2.37	6.614 ± 2.626	4.543 ± 1.837
Neutrophils	X10^3/uL	0.674 ± 0.234	0.487 ± 0.076	0.498 ± 0.209	0.542 ± 0.320	0.422 ± 0.513	0.271 ± 0.326	0.479 ± 0.224	0.692 ± 0.313	0.870 ± 0.580	0.770 ± 0.365	2.386 ± 0.803	0.537 ± 0.337	0.495 ± 0.315	0.673 ± 0.446	1.276 ± 0.639	0.407 ± 0.255
Neutro/Bands	X10^3/uL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 ± 0	0 ± 0
Lymphocytes	X10^3/uL	3.793 ± 1.424	4.033 ± 0.871	4.573 ± 2.650	4.030 ± 1.734	3.002 ± 0.718	3.170 ± 1.640	3.596 ± 1.043	3.240 ± 1.174	5.424 ± 1.324	8.215 ± 2.205	4.845 ± 0.997	4.911 ± 1.740	4.709 ± 1.209	6.115 ± 2.043	5.182 ± 2.081	4.082 ± 1.622
Monocytes	X10^3/uL	0.156 ± 0.081	0.155 ± 0.069	0.160 ± 0.095	0.084 ± 0.049	0.032 ± 0.039	0.029 ± 0.053	0.034 ± 0.067	0.073 ± 0.037	0.097 ± 0.061	0.205 ± 0.086	0.054 ± 0.074	0.030 ± 0.081	0.067 ± 0.076	0.135 ± 0.125	0.156 ± 0.178	0.054 ± 0.082
Eosinophils	X10^3/uL	0.078 ± 0.073	0.048 ± 0.040	0.064 ± 0.078	0.056 ± 0.047	0.003 ± 0.009	0.004 ± 0.012	0.005 ± 0.011	0.049 ± 0.041	0.106 ± 0.089	0.006 ± 0.019	0.048 ± 0.106	0.013 ± 0.027	0.047 ± 0.046	0 ± 0	0 ± 0	0 ± 0
Basophils	X10^3/uL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 ± 0	0 ± 0
Others	X10^3/uL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 ± 0	0 ± 0
Organ Weights																	
Body Weight (post-ng)		21.6 ± 2.5	17.2 ± 1.1	22.3 ± 2.0	17.8 ± 1.0	19.63 ± 1.7	14.7 ± 0.79	23.56 ± 1.42	17.588 ± 0.86	21.6 ± 2.5	17.2 ± 1.1	21.1 ± 1.3	17.5 ± 1.2	22.3 ± 1.6	15.3 ± 12.1	12.8 ± 0.87	13.8 ± 0.88
Gastrointestinal																	
Stomach	g	0.194 ± 0.026	0.154 ± 0.026	0.177 ± 0.039	0.186 ± 0.036	0.130 ± 0.01	0.189 ± 0.03	0.160 ± 0.02	0.170 ± 0.02	0.232 ± 0.06	0.230 ± 0.044	0.245 ± 0.024	0.207 ± 0.026	0.278 ± 0.028	0.243 ± 0.026	0.209 ± 0.049	0.169 ± 0.028
Ileum	g	0.626 ± 0.108	0.589 ± 0.095	0.655 ± 0.156	0.649 ± 0.114	0.550 ± 0.08	0.433 ± 0.32	0.598 ± 0.08	0.630 ± 0.04	1.155 ± 0.164	1.246 ± 0.210	0.925 ± 0.089	0.967 ± 0.094	0.972 ± 0.136	0.811 ± 0.086	0.608 ± 0.080	0.587 ± 0.056
Respiratory																	
Lungs	g	0.229 ± 0.035	0.172 ± 0.028	0.214 ± 0.068	0.190 ± 0.045	0.147 ± 0.02	0.178 ± 0.01	0.195 ± 0.03	0.179 ± 0.04	0.224 ± 0.038	0.220 ± 0.019	0.228 ± 0.040	0.214 ± 0.036	0.246 ± 0.041	0.181 ± 0.019	0.169 ± 0.025	0.180 ± 0.021
Hematological																	
Heart	g	0.179 ± 0.036	0.135 ± 0.010	0.180 ± 0.030	0.139 ± 0.017	0.150 ± 0.0	0.150 ± 0.02	0.185 ± 0.04	0.146 ± 0.02	0.174 ± 0.031	0.151 ± 0.012	0.153 ± 0.019	0.131 ± 0.023	0.157 ± 0.028	0.116 ± 0.017	0.108 ± 0.015	0.111 ± 0.014
Liver	g	1.181 ± 0.121	0.893 ± 0.070	1.089 ± 0.198	0.937 ± 0.077	0.971 ± 0.02	0.850 ± 0.14	1.188 ± 0.12	0.868 ± 0.11	1.163 ± 0.137	1.058 ± 0.088	1.390 ± 0.080	1.050 ± 0.072	1.286 ± 0.085	0.968 ± 0.147	0.924 ± 0.067	0.834 ± 0.088
Spleen	g	0.077 ± 0.024	0.071 ± 0.010	0.076 ± 0.011	0.078 ± 0.011	0.085 ± 0.01	0.058 ± 0.02	0.057 ± 0.0	0.054 ± 0.01	0.257 ± 0.042	0.271 ± 0.011	0.129 ± 0.021	0.091 ± 0.015	0.278 ± 0.030	0.206 ± 0.037	0.155 ± 0.024	0.165 ± 0.022
Pancreas	g	0.113 ± 0.026	0.102 ± 0.021	0.119 ± 0.041	0.118 ± 0.042	0.048 ± 0.01	0.122 ± 0.04	0.103 ± 0.01	0.096 ± 0.01	a	a	0.164 ± 0.019	0.127 ± 0.034	a	a	a	a
Renal																	
Kidney (L)	g	0.206 ± 0.020	0.146 ± 0.011	0.204 ± 0.045	0.150 ± 0.012	0.143 ± 0.03	0.148 ± 0.01	0.177 ± 0.02	0.138 ± 0.01	0.189 ± 0.022	0.147 ± 0.013	0.223 ± 0.021	0.150 ± 0.012	0.176 ± 0.014	0.122 ± 0.011	0.106 ± 0.011	0.111 ± 0.011
Kidney (R)	g	0.205 ± 0.018	0.154 ± 0.009	0.215 ± 0.042	0.159 ± 0.013	0.137 ± 0.03	0.158 ± 0.01	0.179 ± 0.01	0.144 ± 0.01	0.198 ± 0.020	0.146 ± 0.014	0.226 ± 0.015	0.145 ± 0.006	0.205 ± 0.059	0.127 ± 0.015	0.118 ± 0.011	0.114 ± 0.009
Reproductive																	
Ovary (L)	g	0.010 ± 0.002		0.011 ± 0.003			0.017 ± 0.01		0.009 ± 0.0		0.019 ± 0.007		0.012 ± 0.006		0.009 ± 0.002		0.013 ± 0.003
Ovary (R)	g	0.009 ± 0.004		0.024 ± 0.044			0.014 ± 0.01		0.008 ± 0.0		0.021 ± 0.006		0.011 ± 0.003		0.011 ± 0.004		0.015 ± 0.003
Testes (L)	g	0.119 ± 0.010		0.120 ± 0.015		0.099 ± 0.02		0.083 ± 0.01		0.101							