

## 系統名：BALB/cCrSlc

### 特徴

- 体重比で見た場合、網内系器官が大きい
- X線照射に感受性が極めて高い
- 加齢に伴い心臓に石灰沈着が高率に発生<sup>1)</sup>
- 雄同士の闘争が比較的若齢より多発
- Th2型の免疫反応が高い<sup>2)</sup>

### 用途

- 免疫<sup>3)</sup>
- アレルギー(喘息、皮膚炎等)<sup>4), 5)</sup>
- モノクローナル抗体作製等

### 毛色

アルビノ(AAbbcc)

### H2ハプロタイプ

H2<sup>d</sup>

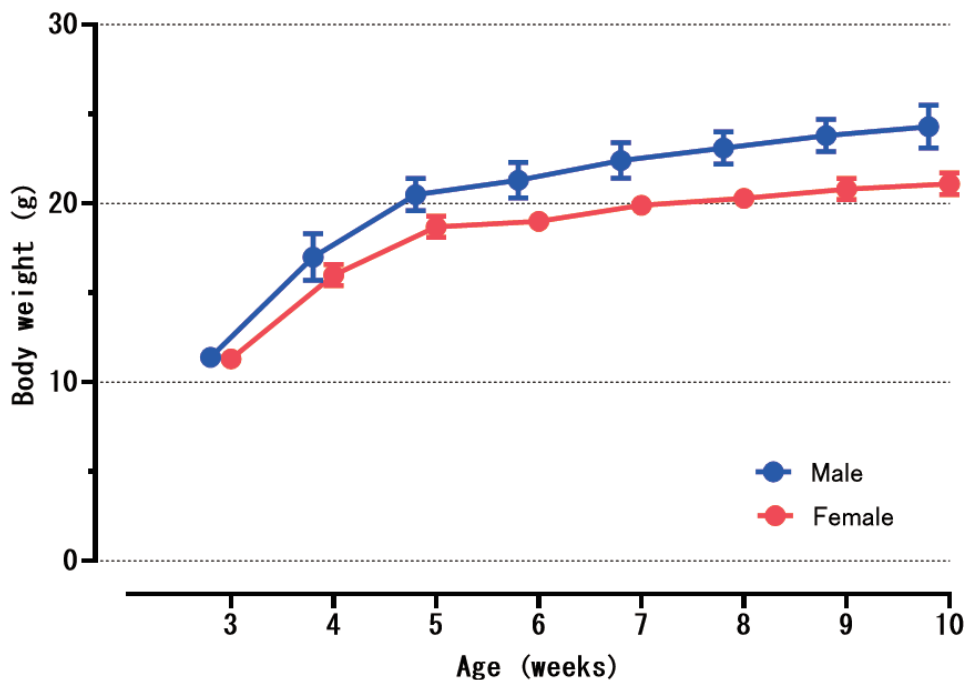
### 由来

1975年に東京大学医科学研究所より導入



- 1) Glass *et al. Comp Med.* 2013. **63**: 29-37.
- 2) Autenrieth *et al. Infect Immun.* 1994. **62**: 2590-2599.
- 3) Aihara *et al. Am J Pathol.* 2015. **185**:172-184.
- 4) Iwano *et al. J Appl Toxicol.* 2020. doi:10.1002/jat.3988.
- 5) Sadamatsu *et al. Inflamm Res.* 2020. **69**:139-151.

## ■体重曲線



		Age (weeks)							
		3	4	5	6	7	8	9	10
Male (n=20)	Mean (g)	11.4	17.0	20.5	21.3	22.4	23.1	23.8	24.3
	S.D.	0.3	1.3	0.9	1.0	1.0	0.9	0.9	1.2
Female (n=20)	Mean (g)	11.3	16.0	18.7	19.0	19.9	20.3	20.8	21.1
	S.D.	0.3	0.6	0.6	0.5	0.5	0.3	0.6	0.6

飼料: 5L3R (PMI FEEDS)

## ■血液学的検査

Items	Unit	Male	Female
		10 weeks n=10	10 weeks n=10
WBC	$\times 10^2/\mu\text{L}$	23.0 $\pm$ 7.3	26.3 $\pm$ 6.1
RBC	$\times 10^4/\mu\text{L}$	940.1 $\pm$ 31.9	917.4 $\pm$ 47.6
HGB	g/dL	14.2 $\pm$ 0.6	14.2 $\pm$ 0.7
HCT	%	45.6 $\pm$ 1.4	45.3 $\pm$ 2.3
MCV	fL	48.5 $\pm$ 0.5	49.4 $\pm$ 0.4
MCH	pg	15.1 $\pm$ 0.3	15.4 $\pm$ 0.2
MCHC	g/dL	31.1 $\pm$ 0.7	31.2 $\pm$ 0.3
PLT	$\times 10^4/\mu\text{L}$	123.5 $\pm$ 10.0	113.0 $\pm$ 6.6

Values are mean  $\pm$  S.D.  
飼料:5L3R (PMI FEEDS)

## ■血液生化学的検査

Items	Unit	Male	Female
		10 weeks n=10	10 weeks n=10
AST	U/L	52.7 $\pm$ 8.7	67.9 $\pm$ 24.6
ALT	U/L	34.1 $\pm$ 4.3	39.6 $\pm$ 18.9
ALP	U/L	323.8 $\pm$ 18.6	365.4 $\pm$ 24.5
ALB	g/dL	3.1 $\pm$ 0.1	3.1 $\pm$ 0.1
TP	g/dL	4.7 $\pm$ 0.2	4.3 $\pm$ 0.2
A/G		2.0 $\pm$ 0.1	2.5 $\pm$ 0.1
GLU	mg/dL	124.9 $\pm$ 22.5	121.4 $\pm$ 17.1
T-BIL	mg/dL	0.07 $\pm$ 0.02	0.05 $\pm$ 0.01
T-CHO	mg/dL	80.1 $\pm$ 7.1	68.7 $\pm$ 5.7
TG	mg/dL	76.0 $\pm$ 15.1	73.5 $\pm$ 15.2
PL	mg/dL	162.9 $\pm$ 13.6	140.8 $\pm$ 9.8
Ca	mg/dL	7.5 $\pm$ 0.3	7.7 $\pm$ 0.2
IP	mg/dL	8.9 $\pm$ 0.6	8.0 $\pm$ 0.8
BUN	mg/dL	19.8 $\pm$ 1.9	18.6 $\pm$ 1.6
CRE	mg/dL	0.09 $\pm$ 0.01	0.10 $\pm$ 0.02
Na	mEq/L	150.2 $\pm$ 1.3	150.5 $\pm$ 1.0
K	mEq/L	4.8 $\pm$ 0.5	4.4 $\pm$ 0.4
Cl	mEq/L	110.2 $\pm$ 1.7	110.8 $\pm$ 1.5

Values are mean  $\pm$  S.D.  
飼料:5L3R (PMI FEEDS)

## ■器官重量

Items	Unit	Male	Female
		10 weeks n=10	10 weeks n=10
Body weight	g	22.9 $\pm$ 0.7	19.0 $\pm$ 0.9
Absolute organ weight			
Brain	g	0.436 $\pm$ 0.015	0.432 $\pm$ 0.017
Heart	g	0.117 $\pm$ 0.006	0.100 $\pm$ 0.007
Lung	g	0.136 $\pm$ 0.006	0.127 $\pm$ 0.011
Kidney (L)	g	0.184 $\pm$ 0.008	0.130 $\pm$ 0.010
(R)	g	0.191 $\pm$ 0.010	0.137 $\pm$ 0.013
Spleen	g	0.087 $\pm$ 0.006	0.100 $\pm$ 0.012
Liver	g	1.098 $\pm$ 0.051	0.882 $\pm$ 0.039
Testis (L)	g	0.092 $\pm$ 0.005	
(R)	g	0.097 $\pm$ 0.006	
Ovary (L)	mg		4.3 $\pm$ 1.1
(R)	mg		4.9 $\pm$ 1.5
Uterus	g		0.080 $\pm$ 0.029
Thymus	g	0.031 $\pm$ 0.006	0.039 $\pm$ 0.005
Salivary gland (L)	g	0.069 $\pm$ 0.011	0.054 $\pm$ 0.010
(R)	g	0.074 $\pm$ 0.012	0.054 $\pm$ 0.006
Relative organ weight			
Brain	g%	1.90 $\pm$ 0.07	2.28 $\pm$ 0.14
Heart	g%	0.51 $\pm$ 0.02	0.53 $\pm$ 0.02
Lung	g%	0.59 $\pm$ 0.03	0.67 $\pm$ 0.05
Kidney (L)	g%	0.80 $\pm$ 0.03	0.69 $\pm$ 0.04
(R)	g%	0.83 $\pm$ 0.03	0.72 $\pm$ 0.05
Spleen	g%	0.38 $\pm$ 0.03	0.53 $\pm$ 0.06
Liver	g%	4.79 $\pm$ 0.20	4.65 $\pm$ 0.21
Testis (L)	g%	0.40 $\pm$ 0.02	
(R)	g%	0.42 $\pm$ 0.02	
Ovary (L)	mg%		22.45 $\pm$ 5.72
(R)	mg%		25.95 $\pm$ 8.05
Uterus	g%		0.42 $\pm$ 0.15
Thymus	g%	0.13 $\pm$ 0.03	0.21 $\pm$ 0.02
Salivary gland (L)	g%	0.30 $\pm$ 0.04	0.28 $\pm$ 0.05
(R)	g%	0.32 $\pm$ 0.05	0.29 $\pm$ 0.03

Values are mean  $\pm$  S.D.  
飼料:5L3R (PMI FEEDS)