

Table 5. Survival of SAMs, DDD/Jah and C57BL/6/Jah at NILS Aging Farm

Strains	sex	Number of animals	range (days)	average (days)	75% survival		50% survival		25% survival		10% survival		longest living decade (days)
					Months of Age	Days of Age							
SAMRITA	♂	219	202-1062	653+/-170	18.51	563	21.97	668	24.73	752	27.59	839	996+/-38
	♀	284	265-1052	636+/-126	17.99	547	21.05	640	23.58	717	26.34	801	922+/-59
SAMP6/Ta	♂	296	192-1107	568+/-197	13.94	424	18.71	569	23.22	706	26.96	820	1009+/-64
	♀	251	255-1072	581+/-179	14.53	442	18.15	552	23.51	715	27.36	832	959+/-54
SAMP8/Ta	♂	285	192-831	483+/-143	12.00	365	15.52	472	19.37	589	22.30	678	778+/-29
	♀	340	207-760	473+/-123	12.50	380	15.55	473	18.38	559	21.18	644	733+/-15
DDD/Jah	♂	243	151-974	530+/-179	13.42	408	17.20	523	21.83	664	25.02	761	898+/-45
	♀	238	152-958	570+/-171	15.52	472	18.84	573	22.36	680	25.91	788	888+/-40
C57BL/6/Jah	♂	238	333-1301	856+/-211	23.02	700	28.81	876	33.38	1015	37.09	1128	1242+/-31
	♀	221	244-1172	758+/-171	21.14	643	24.93	758	28.97	881	31.57	960	1112+/-30

\*Mean+/-SD

Table 6. Survival of 6 Inbred Strains of Mice at NILS-LARF Contract Aging Farm

Strains	sex	Number of animals	range (days)	average (days)	75% survival		50% survival		25% survival		10% survival	
					Months of Age	Days of Age						
A/J	♂	50	563-941+	-	22.59	687	26.01	791	27.16	826	29.66	902
	♀	50	714-937+	-	26.11	794	27.29	830	29.83	907	-	-
AKR/N	♂	50	224-530	336+/-73	9.21	280	10.59	322	12.07	367	14.37	437
	♀	50	224-409	283+/-44	7.93	241	8.62	262	10.29	313	10.92	332
BALB/c	♂	50	292-899+	-	23.51	715	25.75	783	26.80	815	28.41	864
	♀	50	545-927+	-	22.13	673	24.07	732	27.06	823	28.67	872
C57BL/6	♂	50	707-958+	-	26.96	820	29.23	889	31.54	959	-	-
	♀	50	693-938+	-	25.32	770	27.16	826	28.64	871	-	-
CBA/N	♂	50	682-920+	-	25.45	774	25.88	787	27.52	837	29.30	891
	♀	50	766-940+	-	27.92	849	30.29	921	-	-	-	-
DBA/2	♂	50	662-941+	-	23.12	703	25.42	773	26.90	818	28.67	872
	♀	50	690-950+	-	25.09	763	26.47	805	29.00	882	30.91	940

\*Mean+/-SD

Table 7. Survival of Male Donryu Rats with Free Access and Dietary Restriction

sex	Number of animals	range (days)	average (days)	75% survival		50% survival		25% survival		10% survival	
				Months of Age	Days of Age						
♂	36	454-853	679+/-82	20.85	634	22.07	671	23.48	714	25.78	784
♂	29	530-1360	900+/-240	24.93	758	25.91	788	29.27	890	43.83	1333
♂	406	497-1027	745	21.71		24.57		27.98		30.08	(unpublished)

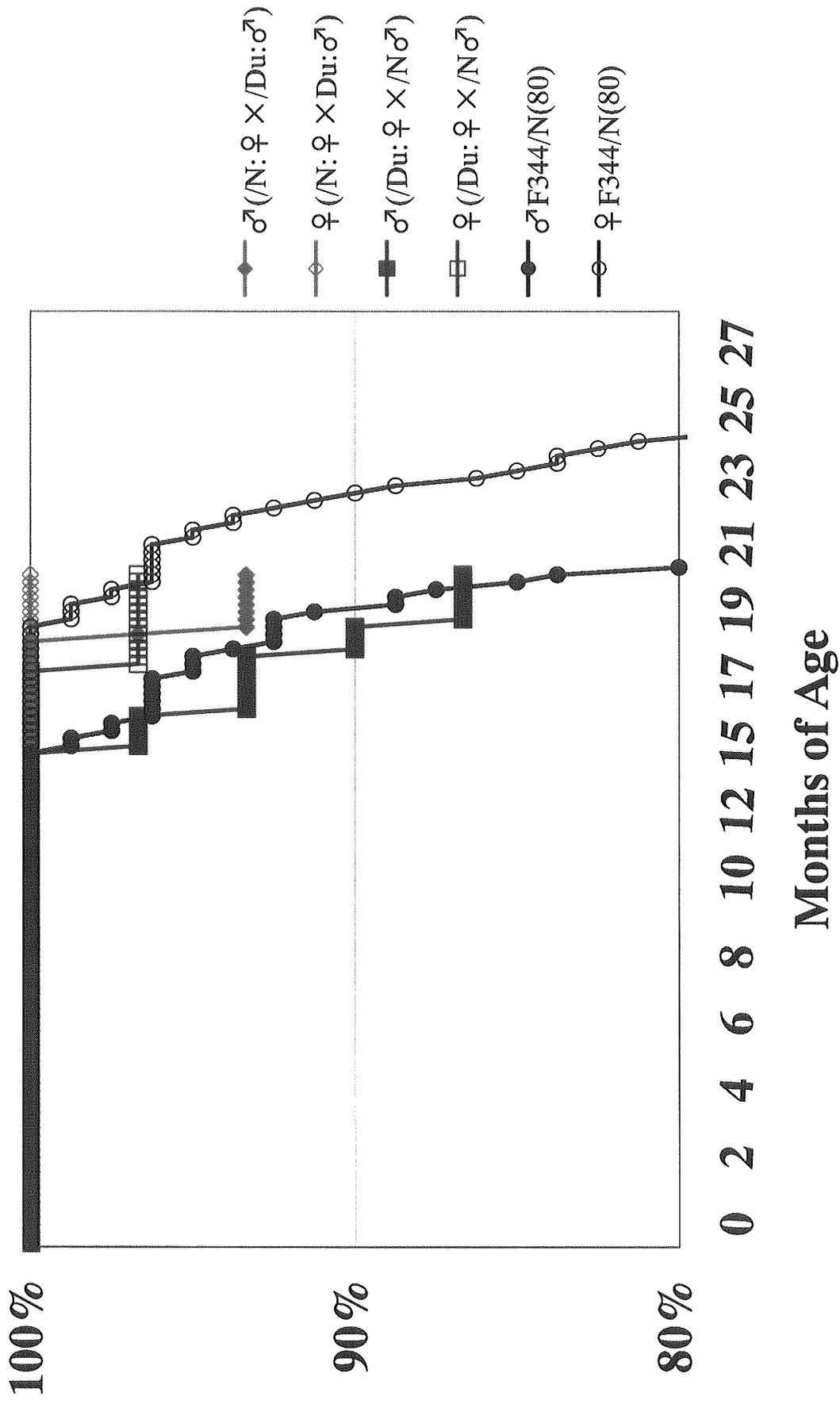
F344/N  
(average of 6 groups)  
Tanaka et al., 2000

## Table 8. Tetative Explanation of the Segregation

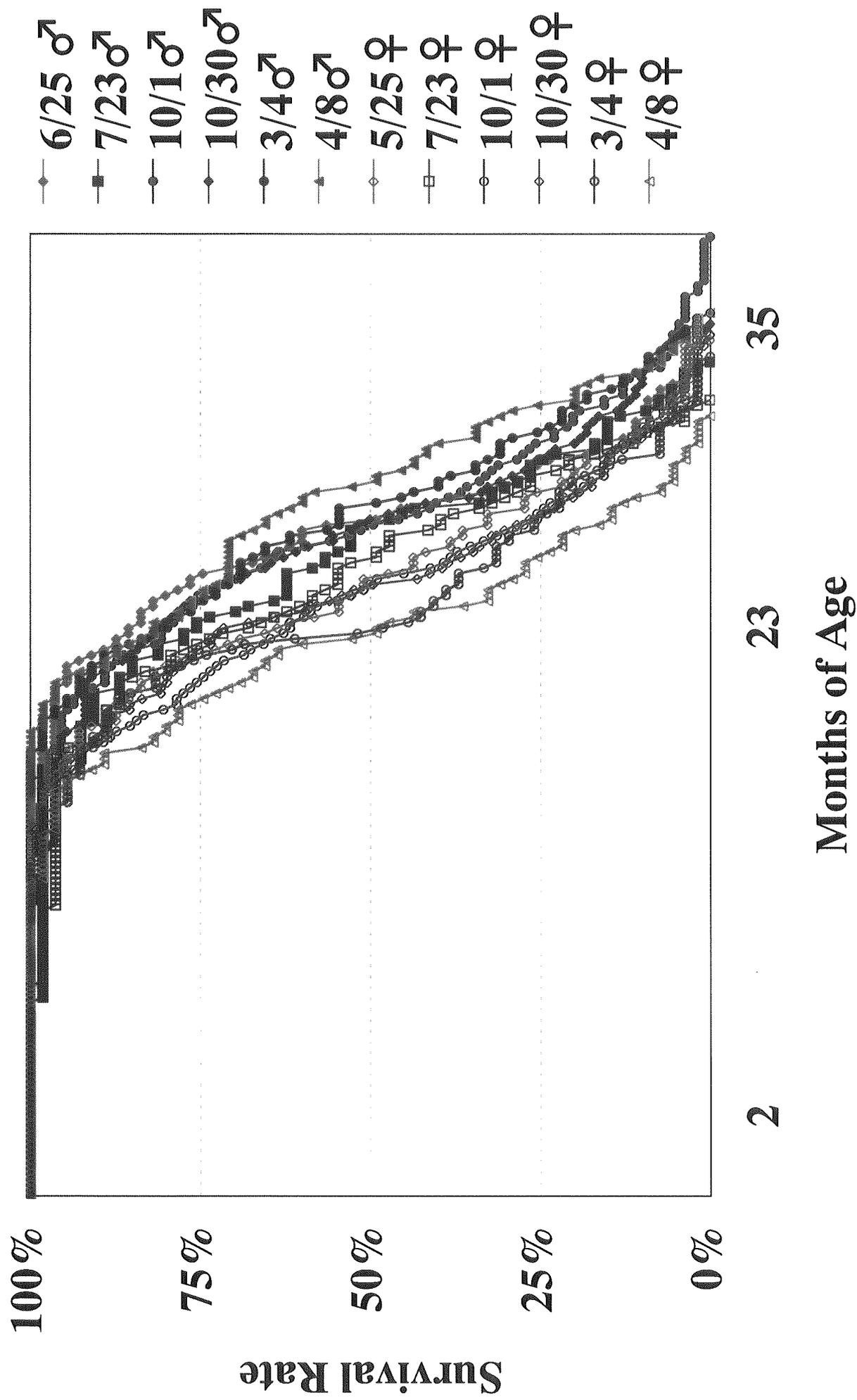
### Sensitive to Dietary Restriction (sensitive to DR; sdr)

Outbred strain Donyu characterised with heterogeneity

SDR homo	SDR/SDR	25%
SDR hetero	SDR/sdr	50%
sdr homo	sdr/sdr	25% selected for longer survival



**Fig. 1 Survival of (F344/Du, F344/N) Reciprocal F1 Hybrid at NILS-LARF Contract Aging Farm**



**Fig. 2 Survival of C57BL/6 Mice at NILS Aging Farm**

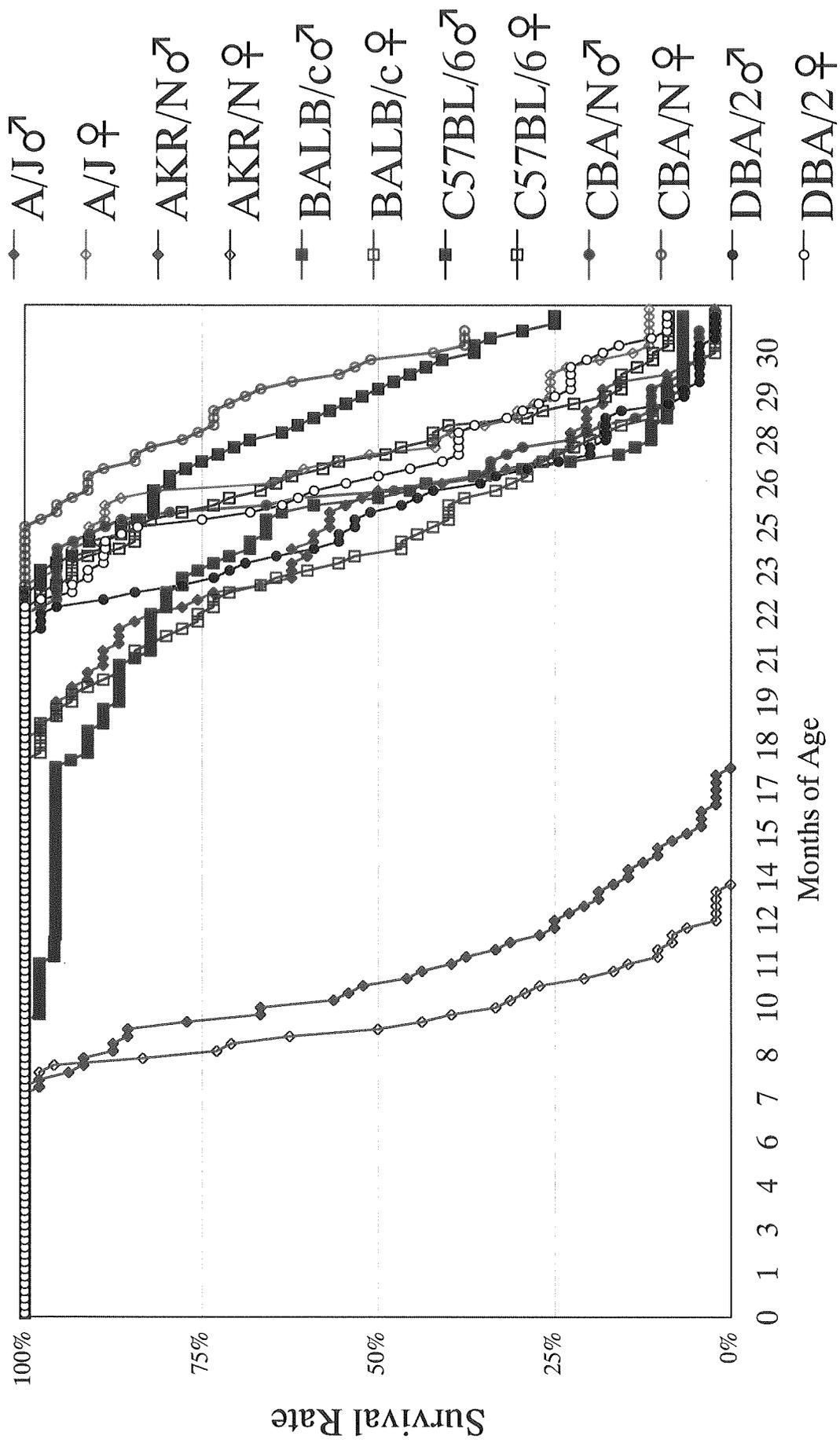
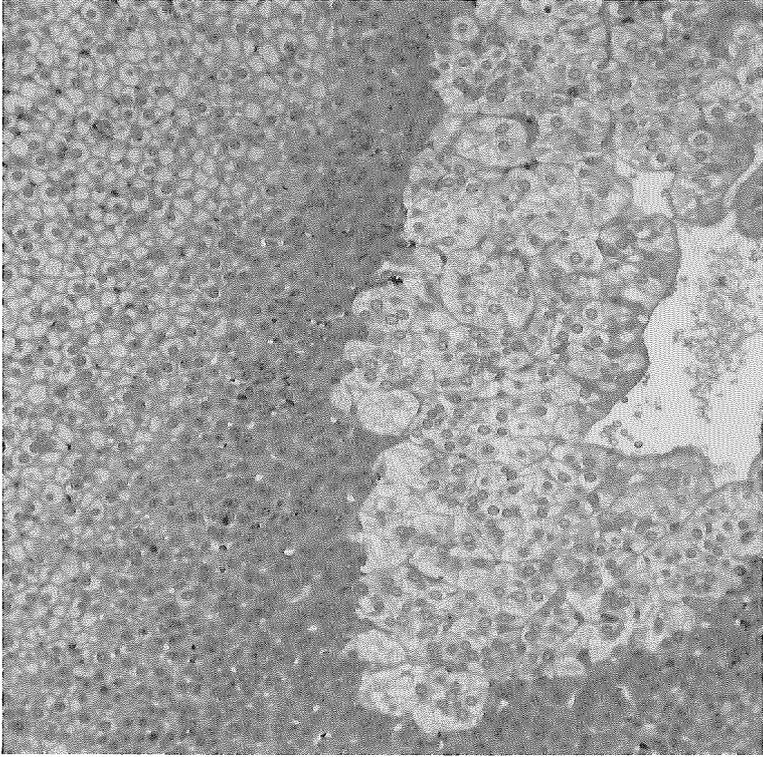
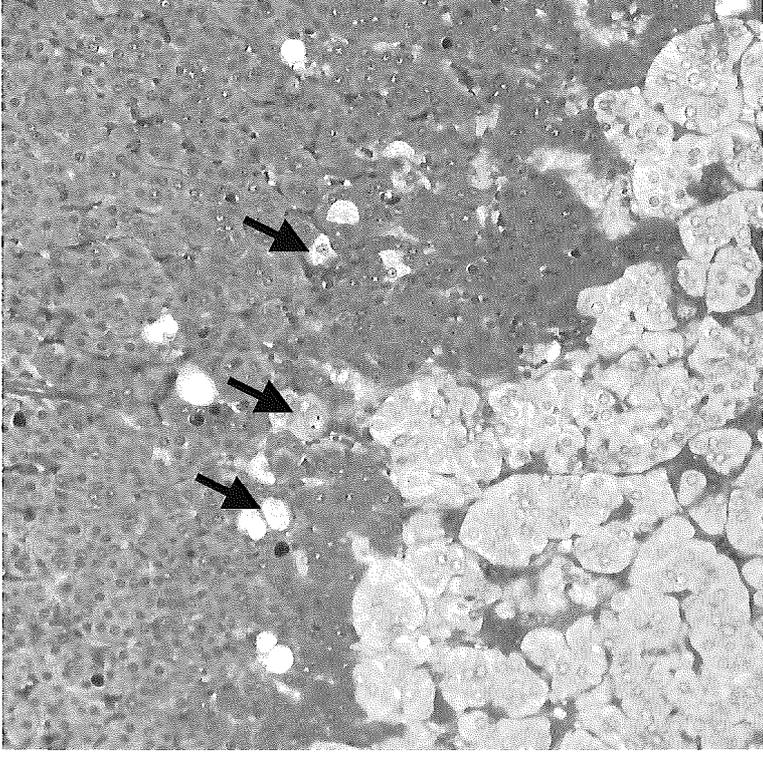


Fig. 3 Survival of Six Inbred Strains of Mice at NILS-LARF Contract Aging Farm



Jms: Japan



Hsd: U S

**Fig. 4 Adrenal Cortex of C57BL/6J Mice**

# 視床下部

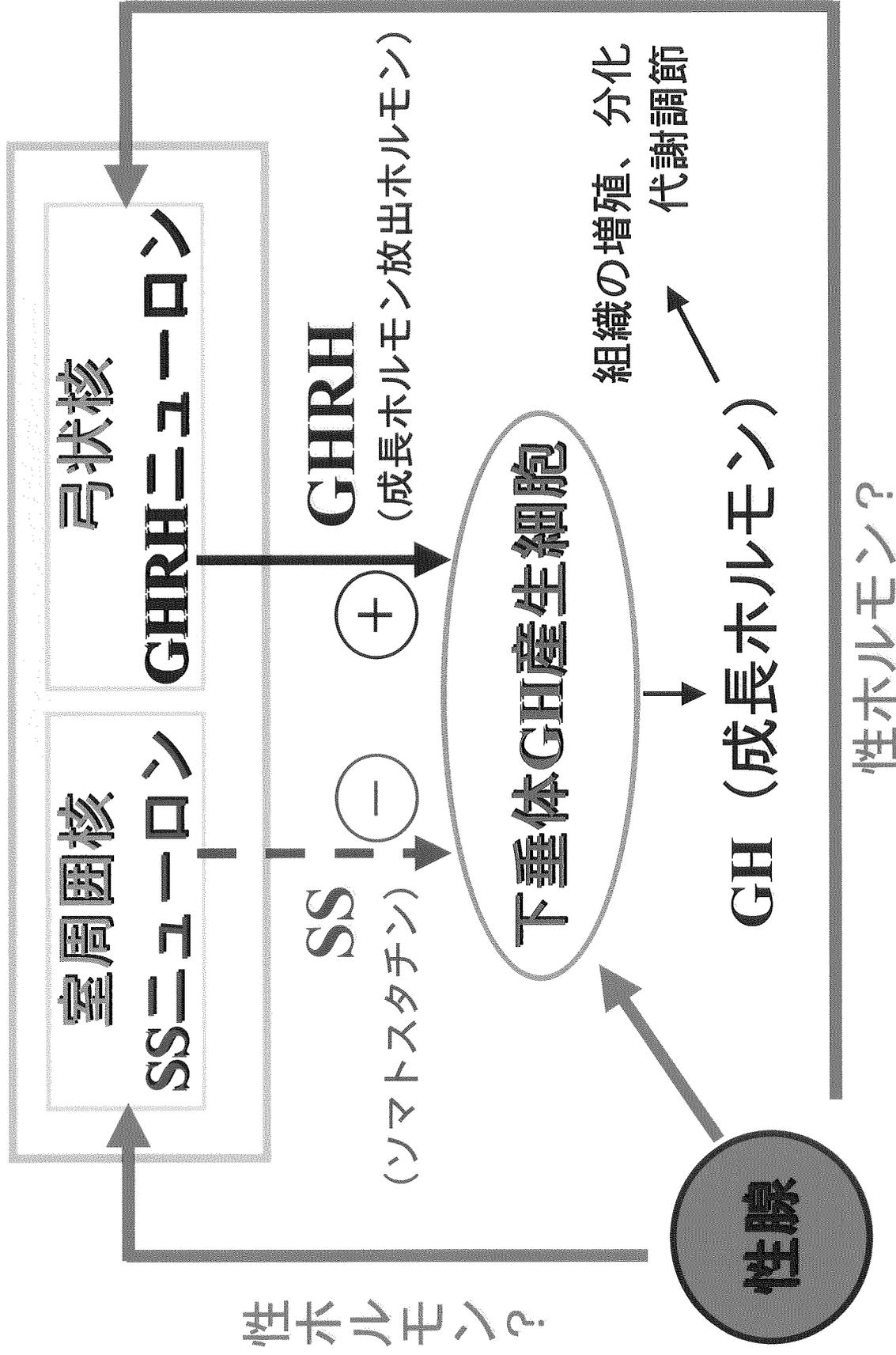


Fig. 5 C57BL/6Jマウス間脳-下垂体系への加齢修飾

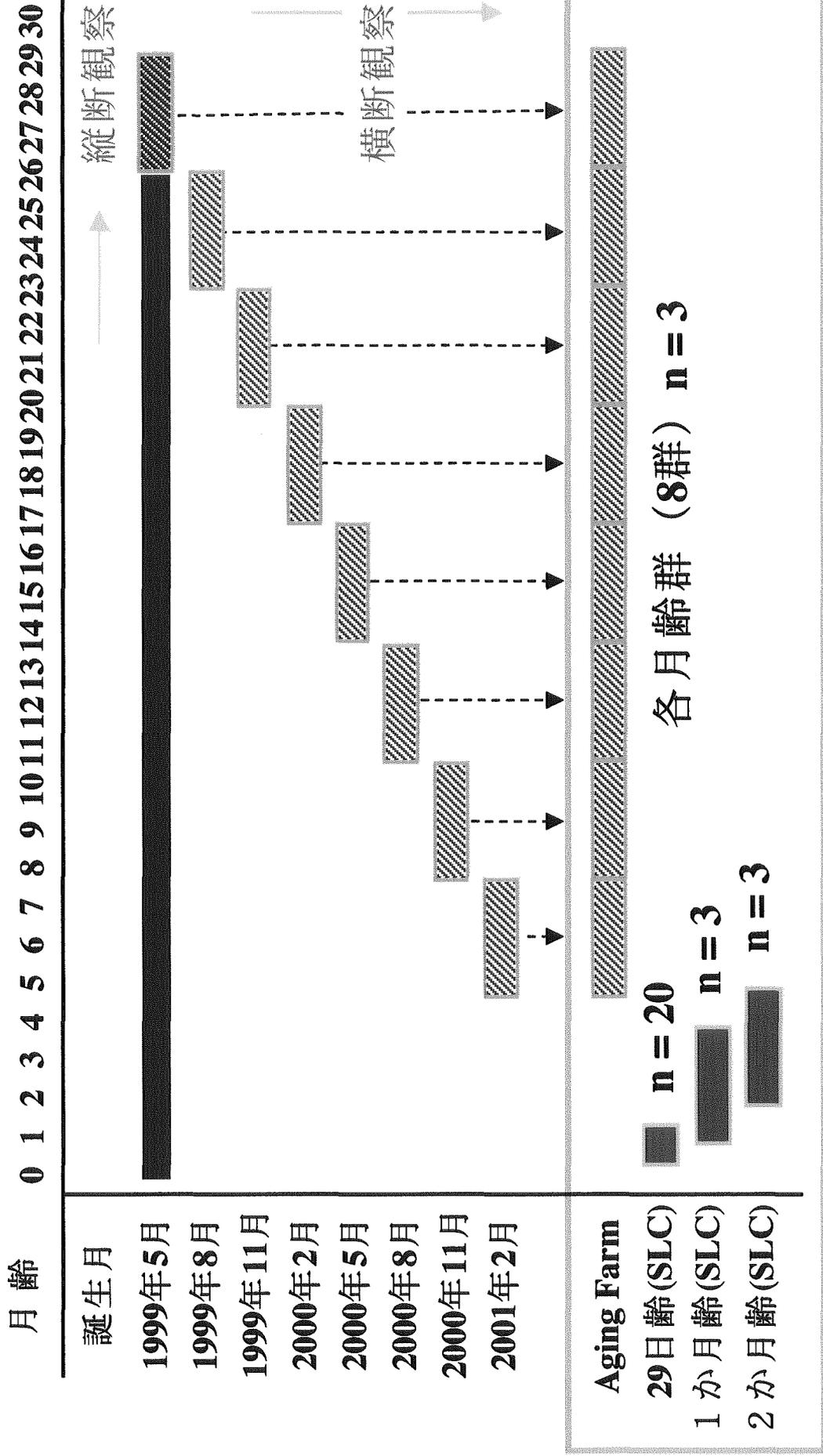


Fig. 6 NILS Aging Farmの実験動物利用方法-今回の F344/N-

**a.** 発情前期

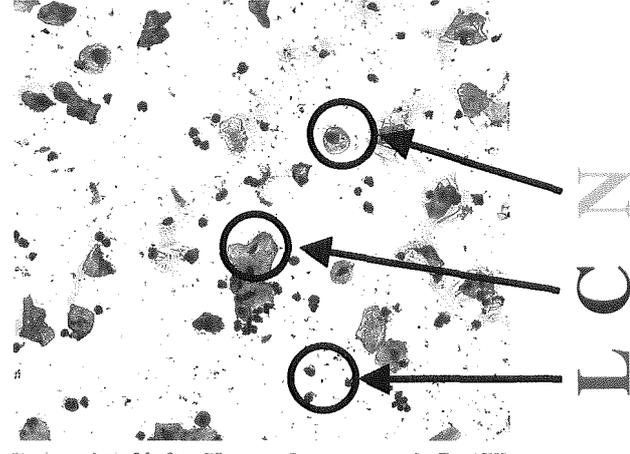
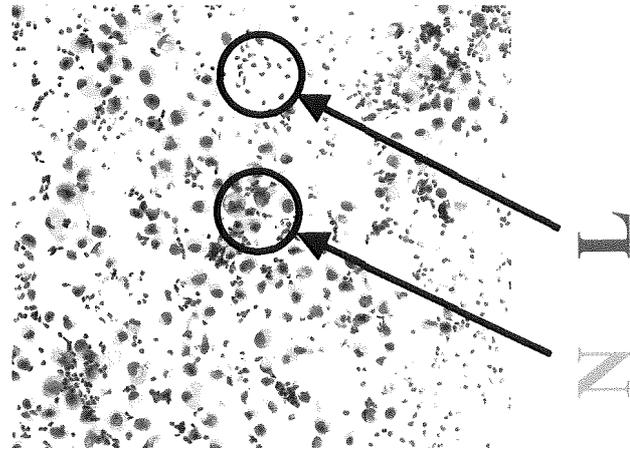
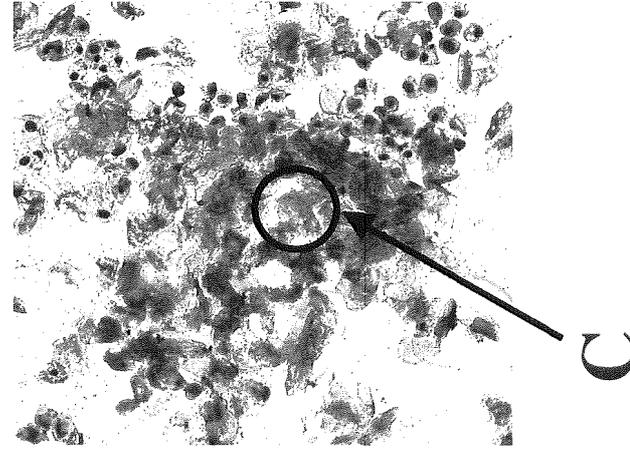
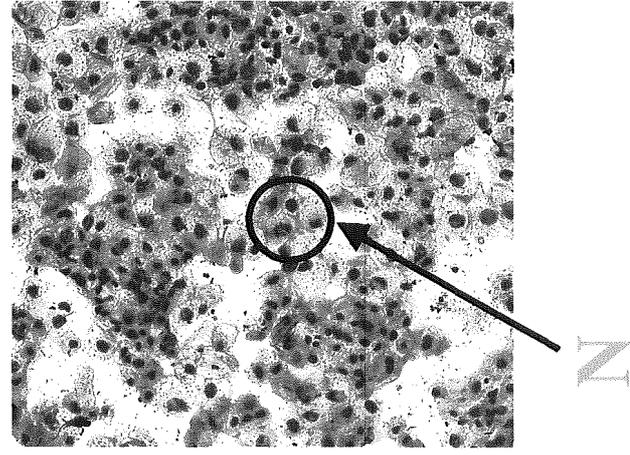
**b.** 発情期

**c.** 発情後期

**d.** 発情休止期

(排卵)

×200



N: 有核細胞 C: 角化細胞 L: 白血球

**Fig. 7** 性周期相と膾垢像

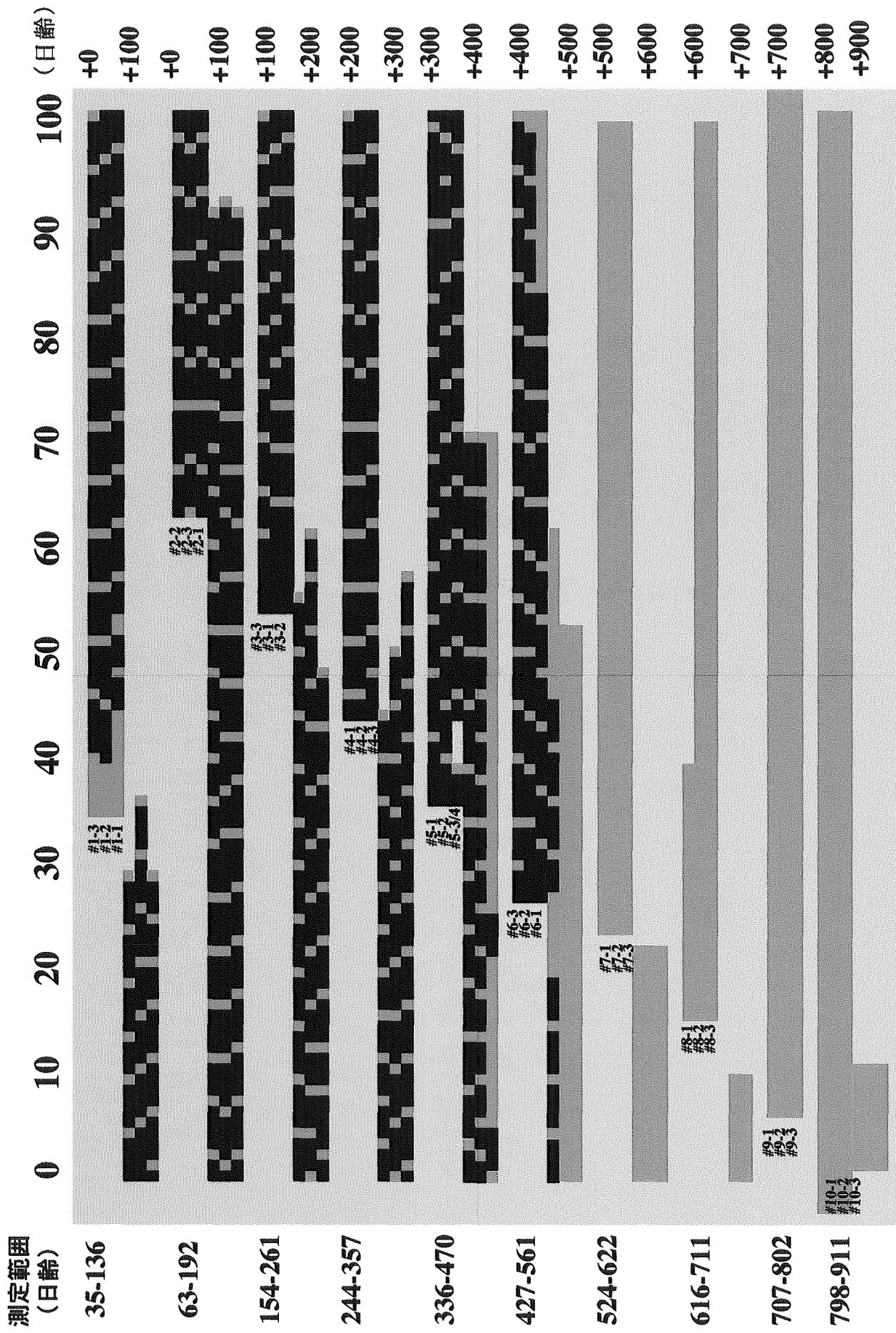
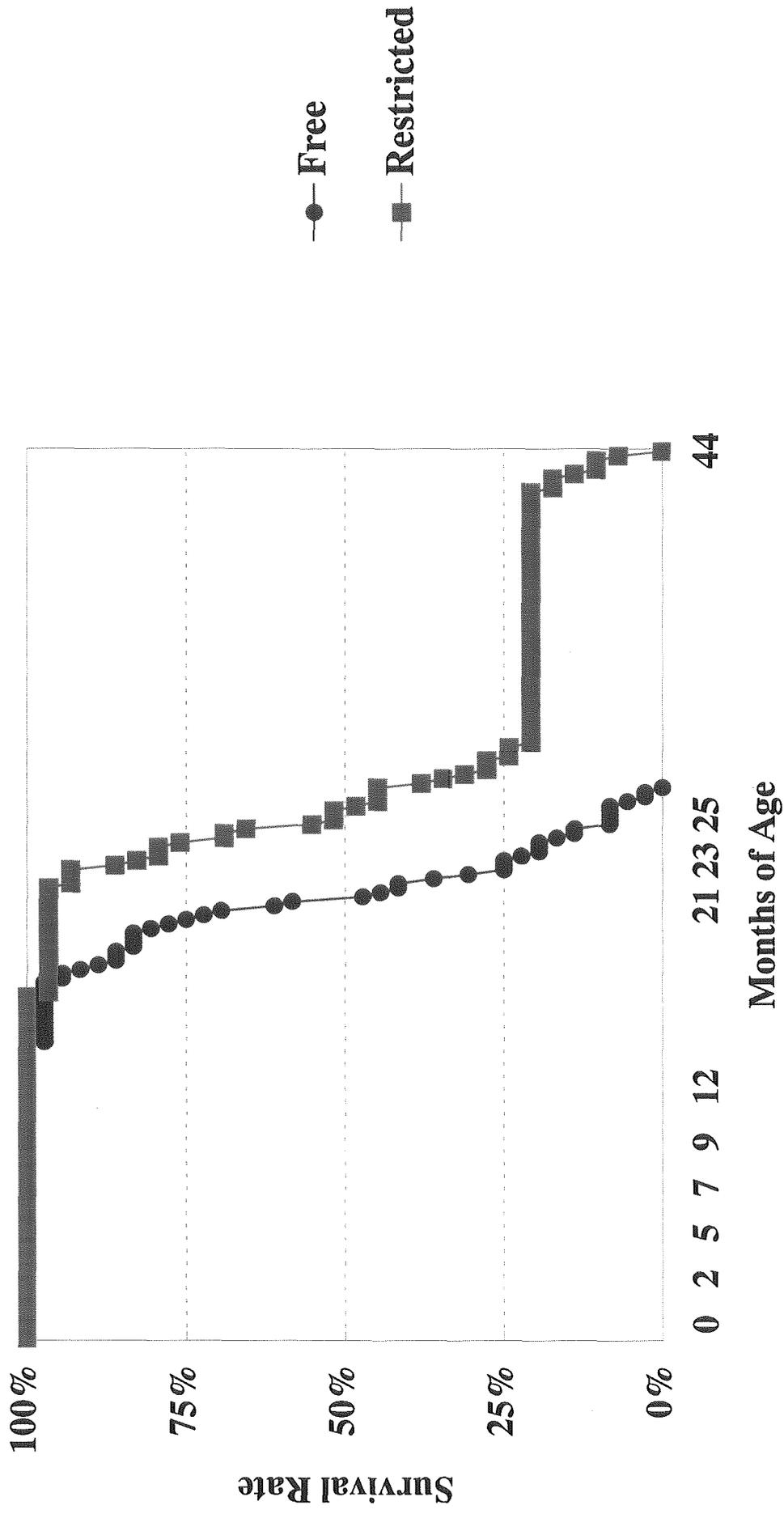


Fig. 8 F344/N雌性周期の加齢変化



**Fig. 9 Survival of Male Donryu Rats**

## Ⅱ. 研究成果の刊行に関する一覧表

## 別紙 5

## 研究成果の刊行に関する一覧表

## 書籍

著者氏名	論文タイトル名	書籍全体の 編集者名	書籍名	出版社名	出版地	出版年	ページ

## 雑誌

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
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O. Miyaishi, S. Tanaka, R. Kanawa, K. Matsuzawa and K. Isobe	Anisocytosis precedes onset of the large granular lymphocyte leukemia in aged F344/N rats.	Arch. Geront. Geriat.	30	161-172	2000
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S. Tanaka, A. Shito, N. Tamaya, O. Miyaishi, M. Nishimura and T. Ohno	Difference in average survival between F344/Du and F344/N rats is not due to genetic contamination.	Arch. Geront. Geriat.,	34	19-28	2002
S. Tanaka, T. Ohno, O. Miyaishi and Y. Itoh	Survival curve modified through dietary restriction (DR) in male donryu rats.	Arch. Geront. Geriat.,	in press		2002

20010179

以降は雑誌/図書等に掲載された論文となりますので  
別紙5「研究成果の刊行に関する一覧表」をご参照ください