대한생리학회지 : 제21권 제 2 호

가축과 실험동물의 생리자료(12)-12(끝)

제 12 장 쥐(The Rat)-12

정 순 동 경희대학교 의과대학 생리학교실

제 499 표 정장의 Na, K 및 Cl 농도 (쥐) (Levine 및 Marsh[490]에 의함, mEq/liter, ♂, 童貞, 몸무게 225～300g, Sprague-Dawley계, M±SE)

Na	K	Cl	비 고
109.5±4.5(30마리)	46.2±3.9(28마리)	118.0±4.0(30마리)	정세관에서 채취
112.1±5.6(17마리)	16.0±5.8(15마리)	31.0±4.4(16마리)	부고환의 두부에서 채취
57.9±4.9(14마리)	37.3±1.6(14마리)	24.4±3.8(16마리)	부고환체에서 채취
20.6±3.0(14마리)	55.1±2.3(14마리)	23.6±2.8(15마리)	부고환의 미부에서 채취
23.3±3.7(12마리)	51.9±1.9(12마리)	19.3±2.4(12마리)	수정관에서 채취

환체에서 채취), 0.548±0.026(19마리, 부고환의 미부에서 채취), 0.697±0.023(16마리, 수정관에서 채취)이다(♂, 童貞, 몸무게 225～300 g, Sprague-Dawley, M±SE).

(156) 정액의 화학성분 함유량

Spector(249)에 의하면 vesiculase, cytochrome, hyaluronidase, choline 및 fructose가 함유되어 있음.

(157) 정자의 크기

吉田(382)에 의하면 全長은 189 μm, 頭長은 11.7 μm, Spector(249)에 의하면 全長은 182 μm, 頭長×頭幅×두께는 18×2×1 μm, 尾長은 164 μm이다.

(158) 정자의 생존기간

吉田(382)에 의하면 암쥐의 생식기 안에서 최장 생존시간은 17시간, 최대 수정력 보지시간은 14시간이다.

Spector(249)에 의하면 수정력 보지시간은 암쥐의 생식기 안에서 14시간이다.

(159) 精漿의 삼투압

Levine 및 Marsh(490)에 의하면 338±6.7 mosmole/kg H_2O(30마리, 정세관에서 채취), 315±4.2 mosmole/kg H_2O(20마리, 부고환의 두부에서 채취), 340±7.9 mosmole/kg H_2O(20마리, 부고환체에서 채취), 329±4.6 mosmole/kg H_2O(17마리, 부고환의 미부에서 채취), 339±3.7 mosmole/kg H_2O(수정관에서 채취)이다(♂, 童貞, 몸무게, 225～300 g, Sprague-Dawley, M±SE).

(160) 精漿의 pH

Levine 및 Marsh(490)에 의하면 7.31±0.02(10마리, 정세관에서 채취), 6.48±0.05(9마리, 부고환의 두부에서 채취), 6.85±0.03(10마리, 부고환의 미부와 수정관에서 채취)이다(♂, 童貞, 몸무게 225～300 g, Sprague-Dawley계, M±SE).

(161) 精漿의 화학성분 함유량

Levine 및 Marsh(490)에 의하면 Na, K 및 Cl 농도는 제 499 표와 같다(♂, 童貞, 몸무게 225～300 g, Sprague-Dawley계).

(162) 정자형성

Kunz 등(491)에 의하면 물에 삶은 casein, 소 간 및 쇠고기를 80% 함유하는 고단백사료를 6개월 동안 급여하면 정자형성이 억제된다. 때로는 고환의 위축이 일어나기도 한다.

(163) 수 명

佐佐木 등(381)에 의하면 2～3년, Spector(249)에 의하면 *Rattus rattus*에 대한 기록은 평균 수명이 2～3년, 최고 수명은 4년, 奥木(467)에 의하면 3～4년이다.

미국 California 주의 따듯한 지방에서는 40개월 이상 생존하였다고 한다(245).

Farris(577)과 Griffin 및 Farris(578)에 의하면 최고수명은 3년 4개월이다(*Rattus norvegicus*).

Altman 및 Ditlmer(576)에 의하면 *Rattus rattus*의 최고수명이 4년 8개월이라는 기록이 있다고 한다.

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