



RESEARCH MODELS

Rats

Mice

Other rodents



NMRI Mouse

- **Strain name:** RjHan:NMRI
- **Type:** Outbred mouse
- **Origin:** Zentralinstitut für Versuchstierzucht (Hannover) - 1982
- **Colour and related genotype:** Albino mouse - *Tyr^c/Tyr^c*
- **Breeding:** Good breeder

Description of our model

Outbred, 9-mouse colony, originally from Swiss, from Lausanne (C. Lynch - 1926), transmitted to Poiley (1937), maintained as an inbred strain up to F51 (named NIH/PI) before being transmitted to the Naval Medical Research Institute – to the Bundes-Forschungsanstalt für Viruskrankheiten (1955) and then the Central Institute for Laboratory Breeding (Hannover - 1958).

SOPF **NMRI** mice are ideal sentinels because they will readily seroconvert.

Hematological parameters* of 10-week old RjHan:NMRI mice			Reproductive data*	
Parameters	Male	Female		
Erythrocytes (10 ¹² /l)	8.7 ± 0.5	9.3 ± 0.5	Bigamous mating according Robertson System	
Hematocrit (l/l)	0.48 ± 0.03	0.51 ± 0.02	Litter size at birth	14.8
Hemoglobin (g/dl)	13.8 ± 0.9	15.1 ± 0.5	Weaning %	90.6
Mean corpuscular volume (fl)	56 ± 1	55 ± 2	Productivity index	3.27
Mean corpuscular rate (pg)	15.9 ± 0.3	16.2 ± 0.4	Sterility %	1
Hemoglobin concentration (g/dl)	29 ± 1	30 ± 1	Gestation time	Between 18 and 20 days • D18: 46 % • D19: 48 % • D20: 6 %
Blood platelets (10 ⁹ /l)	1137 ± 173	990 ± 74		
Leukocytes (10 ⁹ /l)	6.4 ± 2.1	7.8 ± 2.5		
Neutrophils (10 ⁹ /l)	2.37 ± 1.44	0.87 ± 0.25		
Lymphocytes (10 ⁹ /l)	3.44 ± 1.14	6.06 ± 2.31		
Eosinophils (10 ⁹ /l)	0.17 ± 0.05	0.28 ± 0.10		
Monocytes (10 ⁹ /l)	0.13 ± 0.05	0.01 ± 0.05		
Basophils (10 ⁹ /l)	0.03 ± 0.03	0.05 ± 0.04		

Biochemical blood parameters* of 10-week old RjHan:NMRI mice		
Parameters	Male	Female
Glucose (g/l)	2.2 ± 0.5	2.1 ± 0.3
Urea (g/l)	0.4 ± 0.1	0.4 ± 0.1
AST (ASAT) (UI/l)	95 ± 30	95 ± 28
ALT (ALAT) (UI/l)	49 ± 15	49 ± 33
Alkaline phosphatase (UI/l)	57 ± 16	97 ± 22
Cholesterolaemia (g/l)	1.3 ± 0.3	1.1 ± 0.3
Triglycerides (g/l)	2.0 ± 0.8	1.6 ± 0.5
Creatinine (mg/l)	4.0 ± 0.0	4.0 ± 0.0

* JANVIER LABS 2011 Data, for an indicative basis



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Main application and research fields

- Behaviour
- General studies
- Metabolism
- Oncology
- Pharmacology
- Psychopharmacology
- Physiology
- Teratology
- Toxicology

Our additional offer



Laboratory Services



Transgenic Services

Our added value

- The « JANVIER LABS Genetic Policy », a specific programme, guarantees less than 1% inbreeding per generation.
- Animals with the SPF or SOPF standards.
- A gentling policy for docile and easy-to-handle animals.
- Optimal stability conditions of our models during shipments, thanks to our dedicated and internal transport service.
- A scientific support with a team of Veterinarians and PhD.

The available scientific bibliography:

Research has been conducted, all over the world, from models bred in our laboratories.
Discover our updated bibliography of available studies on our Internet website, heading: **Customer Support**.