

MERIDIAN COMPARATIVE MEDICINE CENTER

*Division of Laboratory Animal Resources***Animal Facility Research Activity Log**

Vivarium Building 3, Room 214 – Rodent Barrier Suite

Protocol No.:	IACUC-2026-0447	Approval Date:	15 Jan 2026
Principal Investigator:	Dr. Elena Kowalski, Dept. of Comparative Medicine	Expiration:	14 Jan 2029
Study Title:	Efficacy of NX-2210 in a Murine Model of Chronic Neuroinflam- mation	Pain Category:	USDA Category D
Sponsor:	Vertex Biosciences, Preclinical Neuro- science Unit	Species:	Mice, Rats

 Protocol Overview and Scope

This log documents all husbandry, clinical observation, procedural, and enrichment activity associated with Protocol IACUC-2026-0447 within the rodent barrier suite of Building 3. Entries must be completed in real time by the technician performing the activity and countersigned by the attending veterinarian at the intervals specified in the approved protocol. No retroactive entries are permitted; corrections must be made with a single strike-through, initialed and dated.

Approved animal population

- C57BL/6J mice, male and female, 8–12 weeks at enrollment (n = 48)
- Sprague-Dawley rats, male, 10–14 weeks at enrollment (n = 20)
- Housing: individually ventilated caging, 4–5 mice per cage or 2 rats per cage
- Approved procedures: intraperitoneal injection, tail-vein blood draw, oral gavage, terminal perfusion under deep anesthesia

Status legend used throughout this log.

● Normal – within expected range ● Watch – monitor next check ● Concern – veterinary review required
▲ Emergency escalation

Daily Husbandry and Environmental Log

Date	Time	Temp RH	/	Technician	Cage condition	Food water	/	Init.
01 2026	Jun 07:40	21.2 °C 48%	/	Sofia Marchetti	Clean, dry bed- ding	Adequate, topped		SM
01 2026	Jun 16:15	21.3 °C 47%	/	James Okafor	Clean	Adequate		JO
02 2026	Jun 07:35	21.1 °C 49%	/	James Okafor	Clean	Adequate		JO
02 2026	Jun 16:20	21.4 °C 46%	/	Grace Liu	Slight soiling, cage 14	Adequate		GL
03 2026	Jun 07:50	20.9 °C 50%	/	Sofia Marchetti	Changed, cage 14	Adequate, topped		SM
03 2026	Jun 16:05	21.0 °C 48%	/	Daniel Reyes	Clean	Adequate		DR
04 2026	Jun 07:45	21.2 °C 47%	/	Daniel Reyes	Clean	Adequate		DR
04 2026	Jun 16:10	21.5 °C 45%	/	James Okafor	Clean	Water bot- tle refilled		JO
05 2026	Jun 07:38	21.0 °C 49%	/	Sofia Marchetti	Clean	Adequate		SM
05 2026	Jun 16:00	21.1 °C 48%	/	Grace Liu	Clean	Adequate		GL
08 2026	Jun 07:42	21.3 °C 46%	/	James Okafor	Full cage change, weekly	Adequate, topped		JO
08 2026	Jun 16:18	21.2 °C 47%	/	Daniel Reyes	Clean	Adequate		DR
09 2026	Jun 07:36	20.8 °C 51%	/	Sofia Marchetti	Clean	Adequate		SM
09 2026	Jun 16:12	21.0 °C 49%	/	Grace Liu	Clean	Adequate		GL
10 2026	Jun 07:44	21.1 °C 48%	/	James Okafor	Clean	Adequate		JO
10 2026	Jun 16:20	21.3 °C 46%	/	Daniel Reyes	Clean	Adequate		DR

Clinical and Health Observation Log

Date	Animal ID	Weight (g)	Score	Observation	Observer
01 2026	Jun M-1042	24.8	Normal	Alert, grooming normal, no signs of distress	S. Marchetti
01 2026	Jun R-0207	318.4	Normal	Ambulatory, coat smooth, eating well	J. Okafor
02 2026	Jun M-1058	22.1	Watch	Slightly hunched posture at AM check, resolved by PM	G. Liu
03 2026	Jun M-1058	22.6	Normal	Posture normal, weight recover- ing	D. Reyes

continued on next page

Date	Animal ID	Weight (g)	Score	Observation	Observer
03 Jun 2026	R-0214	305.2	Watch	Reduced water intake noted, bottle checked and free-flowing	S. Marchetti
04 Jun 2026	R-0214	309.0	Normal	Intake normal overnight	J. Okafor
05 Jun 2026	M-1071	21.4	Concern	Piloerection and 8% weight loss from baseline; vet notified	G. Liu
06 Jun 2026	M-1071	22.0	Watch	Improved after supportive hydration gel per Dr. Webb	D. Reyes
08 Jun 2026	M-1071	22.9	Normal	Weight and behavior fully recovered	S. Marchetti
09 Jun 2026	R-0233	296.7	Normal	Routine check, no findings	J. Okafor
10 Jun 2026	M-1090	23.5	Normal	Routine check, no findings	G. Liu

Procedure and Intervention Log

Date	Animal ID	Procedure	Personnel	Anesth./Analg.	Dur.
02 Jun 2026	M-1001–1048	Intraperitoneal dosing, NX-2210 vs. vehicle	Dr. E. Kowalski, S. Marchetti	None required	45 min
04 Jun 2026	R-0201–0220	Tail-vein blood draw, PK timepoint	J. Okafor, D. Reyes	Topical warming only	30 min
06 Jun 2026	M-1071	Supportive subcutaneous fluids	Dr. M. Webb, DVM	N/A – therapeutic	10 min
09 Jun 2026	M-1001–1024	Oral gavage, terminal dose confirmation	Dr. E. Kowalski, G. Liu	None required	40 min
11 Jun 2026	M-1001–1010	Terminal perfusion, tissue collection	Dr. M. Webb, Dr. E. Kowalski	Ketamine/xylazine, deep plane confirmed	90 min

Adverse Event Note – 05 Jun 2026, Animal M-1071

Piloerection and 8% acute weight loss identified during morning rounds. Attending veterinarian Dr. Marcus Webb examined the animal within 40 minutes of notification, authorized subcutaneous fluid support, and placed the animal on twice-daily monitoring. Full recovery confirmed and documented by 08 Jun 2026. No protocol deviation filed; managed under approved humane endpoint contingencies, Section 7.2.

 Enrichment and Environmental Welfare Notes

- Nestlets and gnawing blocks refreshed at each full cage change; verified present and in use during 100% of AM checks this reporting period.
- Rat enrichment tubes rotated weekly between cages to maintain novelty without introducing unapproved materials into the barrier suite.
- Social housing maintained throughout; no animals singly housed except M-1071 during its 05–08 Jun observation window, per veterinary recommendation, with visual and olfactory contact preserved.
- Noise and light-cycle logs cross-checked against facility building-management system weekly; no deviations recorded this period.
- Enrichment review conducted jointly by facility manager and IACUC liaison on 10 Jun 2026; no corrective actions required.

 Personnel Authorization and Training Sign-Off

Name	Role	Training Cert. No.	Date
Dr. Elena Kowalski	Principal Investigator	LAT-2024-0091	01 Jun 2026
Dr. Marcus Webb, DVM	Attending Veterinarian	DVM-LAM-0037	01 Jun 2026
Priya Nair	Facility Manager	LAT-2023-0154	01 Jun 2026
Sofia Marchetti	Animal Care Technician II	LAT-2025-0208	01 Jun 2026
James Okafor	Animal Care Technician II	LAT-2025-0212	01 Jun 2026
Daniel Reyes	Animal Care Technician I	LAT-2026-0033	03 Jun 2026
Grace Liu	Animal Care Technician I	LAT-2026-0041	03 Jun 2026

 **Veterinary Emergency Contact**

Dr. Marcus Webb, DVM
Attending Veterinarian, Comparative Medicine
Direct: (555) 019-2044
After hours / on-call: (555) 019-2091
Facility Manager: Priya Nair, (555) 019-2077

 **IACUC and Compliance**

IACUC Office, Meridian University
Protocol Liaison: Dr. Anitra Sood
Line: (555) 019-3300
Report suspected non-compliance: iacuc-report@meridian-research.example

Attending Veterinarian Signature / Date

Principal Investigator Signature / Date

This log is a record subject to IACUC and USDA/APHIS inspection. Retain for institutional record per Meridian University records-retention policy, Section 12.