



Schizophrenia/Epilepsy Model

Surgery Code: MAM

The schizophrenia/epilepsy model is a preconditioned model involving intraperitoneal injection of methylazoxymethanol acetate (MAM) into pregnant rats. Gestational exposure to MAM results in disrupted neurogenesis in offspring that later in life show subtle behavioral changes, cognitive deficits, neurochemical changes, and neuropathology that mimic those seen in schizophrenia and epilepsy patients. The MAM rat model is a valuable research tool for preclinical or research studies related to schizophrenia/epilepsy.

Animal Models

Typical selections are listed below; however, choices for strain, age and weight may be limited due to model anatomy and/or physiological conditions.

- Rats: male/female, any strain, weight \geq 200 g

Procedure Details

- **Perioperative care:** Please view our Pre- and Postoperative Care Sheet, which can be found at www.criver.com/opcare.
- **Housing:** The animals can be group housed.
- **Diet:** No special diet is required.
- **Postoperative holding period:** Pregnant rats held until parturition after injection. Male and female offspring are shipped after weaning or per customer request.
- **Maintenance:** None.

Surgical Summary

Pregnant mothers are given intraperitoneal injection of methylazoxymethanol acetate between gestational day 15 and 17. Male and female offspring are shipped after weaning or per customer request.

IACUC

The Charles River Institutional Animal Care and Use Committee (IACUC) governs the entire surgical process, including all anesthesia, analgesia, animal preparation and any postoperative holding in Charles River facilities prior to shipment. Review of experimental protocols, authorization to order animals that are surgically modified from Charles River, and all aspects concerning the use of animals after they arrive at the institution are the responsibility of the receiving institution's IACUC.

Contact Us

For more information, visit www.criver.com/surgery. For specific surgery-related questions, please contact our technical experts at 1.877.CRIVER.1 (1.877.274.8371) or askcharlesriver@crl.com. To place an order or get a quote, contact our Customer Service Department at 1.800.LABRATS (1.800.522.7287).