

VMMPC

**Forefront of Research
in Murine Models**



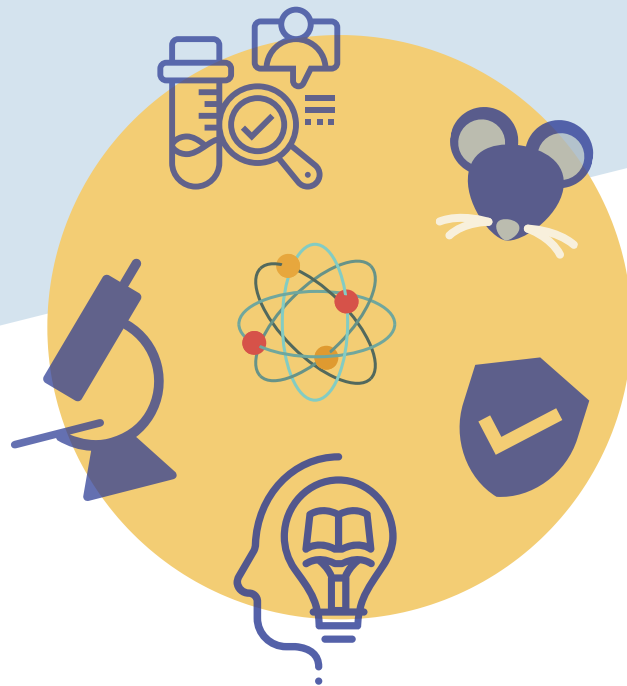
About VMMPC

Our mission is to provide a flexible platform for scientific advancement.

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VMMPC is equipped to operate on a CRO model or build on years of expertise in experimental design and insightful data interpretation to test novel hypotheses. Our services are available to academic and industry researchers interested in the study of murine genetic models or compound testing.

Services range from highly specialized studies of metabolism to standardized drug treatments to pharmacokinetic characterizations. Techniques for obtaining vascular access permit studies without stress. We have published guides to best practices and adhere to those practices.



The VMMPC Advantage

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- Over 20 years of experience as an international resource for centralized study of murine models
 - Individualized consultation with experienced scientists
 - Highly skilled small-animal surgeons and experimentalists
 - Flexible experimental setup and design
 - Development, innovation, and implementation of new approaches
 - AALAS-approved animal care program

General Services

- Arterial and venous access
- Dissection and tissue collection
- Colony management

Pharmacology

- Chronic drug treatment
- Acute and chronic drug actions
- Kinetics of drug disposal

Kidney Function

- Ischemia-reperfusion
- Acute kidney injury
- Glomerular and tubular injuries
- Standard kidney phenotyping
- Acute sepsis challenges

Environmental Conditions

- Range of controlled temperatures
- Circadian challenges
- Variable light/dark cycles
- Diet manipulation
- Running wheel activity

Scientific Board

JE Ayala, N Carrasco, L Lantier,
OP McGuinness, A Pozzi,
DH Wasserman, DG Winder

Metabolism

- Glucose clamps
- Treadmill exercise metabolism and capacity
- Isotopic flux measurements
- Bariatric surgery
- Insulin secretion
- Intravital microscopy
- Host-microbiome interactions
- Cancer and immune metabolism
- Telemetry
- Energy balance in obesity and cachexia
- NASH models and liver injury

Neuroscience

- Brain cannulations
- Neuronal manipulation by DREADDs or optogenetics
- Neuronal measurements by fiber photometry or microendoscopy
- Behavioral analyses



Scan to connect with us or visit

<https://vmmpc.org/contact-us/>



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