



Melior Discovery has pioneered an efficient and systematic approach to find new uses for existing drugs and drug candidates. By applying the unique multiplexed *theraTRACE*® indications discovery platform, Melior can quickly evaluate a compound in multiple, high quality *in vivo* models in order to test the molecule's potential use in a variety of therapeutic areas. In response to growing demands, we are now able to offer this same expertise applied to the design and execution of *in vivo* studies utilizing individual efficacy models.

theraTRACE® Platform

Uniquely powerful approach
to Indications Discovery

- not "hypothesis driven"
- highly predictive *functional* animal models
- "systematic serendipity"
- multiplexing know-how makes this possible

DEPRESSION MODELS

Tail Suspension

- » Validated with antidepressant drugs
- » Measure immobility time over session

Forced Swim

- » Validated with antidepressant drugs
- » Measure immobility time over session

ANXIETY MODELS

Stress-Induced Hyperthermia

- » Validated with anxiolytic drugs
- » Measure effect on temperature change due to stressor

Light/Dark Transitions

- » Validated with anxiolytic drugs
- » Measure transitions from dark to lit areas and activity in each area

Vogel Water Conflict

- » Validated with anxiolytic drugs
- » Record number of aversive licks emitted

Open Field

- » Validated with anxiolytic drugs
- » Record locomotor activity and time in the center of the field

PSYCHOSIS MODELS

Startle and pre-pulse inhibition

- » Validated by antipsychotic drugs
- » Measure percent inhibition of auditory startle

MK-801 (dizolciline) induced hyper-locomotion

- » Validated with antipsychotic drugs
- » Measure compound effect on locomotor activity over time.

COGNITION MODELS

Novel Object recognition

- » Validated with memory disruptors
- » Memory task to recognize a familiar versus novel object

Fear Conditioning

- » Validated with memory disruptors
- » Memory task to adverse stimulus

Melior Discovery
860 Springdale Drive
Exton, PA 19341

Phone: (610) 280-0633
Fax: (610) 280-0637
Email: bizdev@meliordiscovery.com
www.meliordiscovery.com

Customized models available on request