



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

MULTIPLE SCLEROSIS

Experimental Autoimmune Encephalomyelitis (EAE)

- » Mouse and rat models available
- » Validated with drugs known to attenuate autoimmune demyelinating response
- » Animals administered myelin fragment antigen to induce autoimmune response
- » Evaluated for clinically relevant indicators of multiple sclerosis
- » May be used with Von Frey pain assessment

PARKINSON'S DISEASE (PD)

MPTP - mediated dopaminergic degeneration

- » Agents that reverse locomotor deficits produced by MPTP are potentially useful as drugs for symptomatically treating PD
- » Agents that attenuate MPTP-associated motor dysfunction are potentially useful for slowing disease progression
- » Animals dosed with drug or vehicle prior to MPTP administration
- » Monitored for up to 7 days for locomotor parameters and loss of dopamine

ALZHEIMER'S DISEASE

Exclusive Melior Model using APP/PS-1 gene targeted mouse

- » Dosing commences at age 8 months and continues for 2 months
- » Novel Object Recognition with age-matched controls
- » Collection of various brain regions, plasma or serum, and cerebral spinal fluid (CSF)
- » Monitor levels of A β 1-42, A β 1-40
- » Histology and plaque load assessment as required
- » Flexibility in study design: Age of animals, N per group, dosing schedule, ELISA's performed

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