MULTIPLE SCLEROSIS MODELS

BIOSPECTIVE IN VIVO MODELS

Biospective has leading expertise in models to evaluate the efficacy of novel therapeutic agents for multiple sclerosis (MS). Our scientists work closely with sponsors to determine the most appropriate models and biomarkers to assess therapies targeting demyelination and remyelination, inflammation, and neuroprotection.

Rodent Models

- Experimental Autoimmune Encephalomyelitis (EAE)
- Brain-targeted focal EAE
- Cuprizone mouse model of demyelination/remyelination
- Sponsor-provided mouse & rat models

In addition, Biospective has experience working with a large range of rodent models, particularly models of CNS diseases. We are a one-stop shop providing a full range of preclinical services, including model generation, housing, dosing, imaging, behavioral testing, autoradiography, and histopathology studies.
BIOSPECTIVE PHENOTYPING

Behavioral Studies

Full range of behavior tests available:
• Clinical scoring
• Motor (rotarod test)
• Gait analysis

Imaging

Full range of imaging capabilities available:
• MRI
• PET
• Quantitative Autoradiography

Immunohistochemistry

• Myelin markers: MBP IHC, PLP IHC
• Axonal damage: SMI-311, SMI-312 IHC
• Inflammation markers: IBA-1, GFAP IHC
• And many more markers …

References:
Remington et al. [PubMed: 17456776]
Zehntner et al. [PubMed: 18025200]
Miron et al. [PubMed: 19349355]
Zehntner et al. Poster. AAN 2013
Zehntner et al. Poster. ECTRIMS 2014
Rajagovindan. ECTRIMS 2016

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