

Endometriosis models: research strategies

Developing therapies addressing a multifactorial disease

Endometriosis murine models are experimental systems in mice used to study the development, progression, and treatment of endometriosis—a chronic, estrogen-dependent inflammatory condition where endometrial-like tissue grows outside the uterus. These models typically involve the transplantation of uterine tissue into ectopic sites, such as the peritoneal cavity, to mimic human disease. They are crucial for understanding the disease's pathophysiology, identifying molecular mechanisms, and evaluating potential therapeutic strategies in a controlled and reproducible manner.

Preclinical packages

- Establishment of supply chain for patient derived lesions
- Target validation: gene expression (qRT-PCR, *in situ* hybridization) or protein quantification in lesions (ELISA, Western Blot)
- *In vivo* murine models: preclinical compound testing (lesion development, fibrosis, pain, hormonal sensitivity...)

Oncodesign Services offers comprehensive preclinical solutions for the assessment of treatments targeting endometriosis, leveraging its expertise in *in vivo* pharmacology and translational research.

More information

Oncodesign Services is a leading CRO specializing in drug discovery and preclinical services. Our mission is to help researchers discover innovative therapies against cancers and serious diseases with high medical need. We have been performing translational science for over 30 years, providing the partnership required to help our clients progress from therapeutic target to advanceable preclinical candidates.

Why it matters

- Well-characterized murine model of endometriosis to mimic the human disease's key features such as ectopic lesion formation, inflammation, and pain.
- Evaluation of therapeutic efficacy, pharmacodynamics, and safety of candidate compounds.
- Integration of advanced imaging, biomarker analysis, and histopathology.
- From early discovery through to IND-enabling studies.

To provide in-depth insights into treatment effects, and accelerate the development of novel therapies for endometriosis.

Next steps

Reach out to your relationship manager or contact us at:

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