



ARTHRITIS MODEL IN THE MOUSE

To test new treatment strategies for joint inflammation, models must unite immunological, inflammatory, acute / chronic and / or destructive aspects of human disease according to the specific principles of each disease. At Fraunhofer IZI, a specific selection of animal models are available for exploring and studying joint inflammation and cartilage destruction. One may choose immunization using different antigens, a communication of arthritogenic antibodies or the transfer of destructive fibroblasts.

Unique Feature

The diversity of arthritis models available at Fraunhofer IZI is unique and allows for an extensive spectrum of testing.

Client Advantage

Flexible development of a custom model according to expected effects and type of mechanism being tested.

Methods

- collagen induced arthritis, antibody induced arthritis, fibroblast induced arthritis
- imaging diagnostics in the mouse
- serological multiplex analyses
- flow cytometric cell analysis
- gene expression analysis
- metabolic screening
- histology, immunohistochemistry

Fraunhofer Institute for Cell Therapy and Immunology IZI

Perlickstraße 1
04103 Leipzig
Germany

Contact

Dr. Franziska Lange
Department of Diagnostics
Inflammation Models and Immunodiagnos-
tics Unit
Phone +49 341 35536-1401
franziska.lange@izi.fraunhofer.de

www.izi.fraunhofer.de

Selected Applications

- testing new therapeutic processes
- demonstrate efficacy of medicaments for arthritis therapy
- illustration of the effect mechanism of novel therapeutic principles
- clarification of dosage and application type
- examination of tolerance and side effects
- examination of innovative combination therapies

Reference Projects

- fibroblast induced joint destruction in the mouse
- stem cell therapy of joint destruction
- examination of granulocyte directed therapies
- examination of antibodies in arthritis therapy