Immunology and Inflammatory Disease

The BioDuro Advantage

BioDuro’s pharmacology team has extensive drug discovery and development experience in the pharmaceutical industry enabling us to support fully integrated programs, including study design and data interpretation. Special expertise in autoimmune and inflammatory diseases is coupled with a commitment to working with clients to develop customized models for rare diseases.

Our team has successfully collaborated with 9 of the top 20 large pharmaceutical companies and numerous small companies. The success of these collaborations is highlighted by the quality data provided that have informed key project decisions and regulatory filings. Beyond providing analysis, our senior team’s expertise allows for the development of a consulting relationship with client partners.

The Pharmacology Team

- Group leader-level scientists with strong backgrounds and training in autoimmune and inflammatory diseases
- A team of 20 well-trained bench scientists focused on in vitro and in vivo drug discovery services. They are skilled in different animal models/assays and excel in problem-solving and trouble-shooting
- Dedicated, collaborative project management
- Integrated discovery programs

In pursuit of your success.
In Vivo Models

T-Cell as Target
- Systemic Lupus Erythematosus
- Rheumatoid Arthritis
- Type I Diabetes
- Experimental Autoimmune Encephalomyelitis
- Inflammatory Bowel Disease
- Atopic Dermatitis
- Psoriasis
- Type IV Hypersensitivity

B-Cell as Target
- Systemic Lupus Erythematosus
- Rheumatoid Arthritis
- Type I Diabetes
- Experimental Autoimmune Encephalomyelitis
- Inflammatory Bowel Disease

Cytokines as Target
- Rheumatoid Arthritis
- Inflammatory Bowel Disease
- Psoriasis
- Asthma
- Type IV Hypersensitivity

Others
- LPS Induced Cytokine Secretion
- Concanavalin Induced Cytokine Secretion
- Asthma
- Atopic Dermatitis
- Rheumatoid Arthritis

Disease Animal Models

Multiple Sclerosis
- MBP-Induced EAE in Rats
- PLP-Induced EAE in Mice
- MOG35-55 Induced EAE in Mice

Intestinal Bowel Disease
- DSS-Induced Colitis in Mice and Rats

Rheumatoid Arthritis
- Collagen-Induced Arthritis (CIA) in Mice and Rats
- Adjuvant-Induced Arthritis (AIA) in Rats
- G6PI-Induced Arthritis in Mice

Systemic Lupus Erythematosus
- Pristane-Induced Lupus in Mice
- MRL/lpr Lupus Mice

Asthma
- OVA-Induced Asthma in Mice

Psoriatic Model
- Imiquimod-Induced Psoriasis in Mice

Delayed Type Hypersensitivity (DTH)
- Oxazolone-Induced DTH in Mice

FITC Induced Dermatitis

Other Models
- Formalin Induced Nociceptive Models
- Citric Acid Induced Cough Model
- Kidney Ischemia and Reperfusion in Mice Model
- Cisplatin Induced Kidney Injury in Mice Model