

Therapeutic Areas: Immune and Inflammatory Disease Models

Preclinical models of inflammation, pain, and immune responses are essential for evaluating anti-inflammatory and immunomodulatory therapies. Widely used in the development of TNF- α inhibitors (e.g., adalimumab) and IL-6 / IL-17 blockers, these models help validate mechanisms of action and predict clinical efficacy in autoimmune and inflammatory diseases.

Disease Type	Animal Model / Study
Arthritis and Osteoarthritis	Model of sodium urate-induced gouty arthritis
	Model of carrageenin-induced acute arthritis
	Model of BCG vaccine adjuvant-induced rheumatoid arthritis
	Model of type II collagen mixture-induced collagen arthritis
	Model of papain-induced degenerative osteoarthritis
	Model of meniscus removal surgery-induced osteoarthritis
Dermatitis	Solar dermatitis model
	Model of 2,4-dinitrobenzene-induced atopic dermatitis
Vaginitis	Model of gardnerella vaginalis-induced bacterial vaginitis
	Model of mixed bacterial infection-induced vaginitis
Inflammation, Swelling, Immunosuppression	Model of xylene-induced ear swelling
	Model of carrageenin-induced foot swelling
	Model of carrageenin-induced acute exudative inflammation (acute pleurisy)

	Model of glacial acetic acid-induced acute exudative inflammation (capillary permeability)
	Model of cotton ball granuloma-induced chronic proliferative inflammation
	Carbon expurgation test
	Serum hemolysin test
	Model of cyclosporin a-induced immunosuppression
Autoimmune Disease	Systemic lupus
	Erythematosus hypocellular models