

# MEDICILON PHARMACOLOGY MODEL LIST

## Tumor Animal Models (~700)

- CDX models
- PDX models
- Syngeneic models
- Humanized models
- Orthotopic models

Data as of Jan. 2026

## Non-tumor Animal Models (~300)

- Inflammatory & autoimmune disease models
- CNS disease models
- Metabolic disease models
- Cardiovascular disease models
- Digestive disease models
- Other disease models

Data as of Jan. 2026

## Tumor Models

### CDX Models

Cancer Type	Cell Line
Brain cancer	CHP-212, LN-229, U-87 MG, U-251 MG
Breast cancer	BT474, HCC70, HCC1569, HCC1806, HCC1954, JIMT-1, MCF7, MDA-MB-231, MDA-MB-436, MDA-MB-468, MX-1, SUM 149PT, ZR-75-1
Cervix	Hela, SiHa
Colon cancer	COLO 205, DLD-1, HCT-8, HCT-15, HCT-116, HT-29, LIM-1215, LoVo, Ls174T, NCI-H508, RKO, SW48, SW480, SW620, SW837
Endometrium	AN3 CA, HEC-1-A, HEC-1-B, RL95-2
Esophageal	KYSE-520
Fibrosarcoma/Soft tissue	HT-1080
Gastric cancer	Hs 746T, MKN-45, NCI-N87, NUGC-4, SNU-16
Head and neck cancer	CAL-27, Detroit562, FaDu, TT
Leukemia	CCRF-CEM, HEL, HL-60, Jurkat E6.1, JVM-3,K-562, MOLM-13, MOLM-16, MOLT-3, MOLT-4, MV-4-11, OCI-AML-3, TF-1a, THP-1, U-937
Liver cancer	HCCLM3, Hep G2, HuH-7
Lung cancer	A427, A549, Calu-1, Calu-3, Calu-6, DMS114, EBC-1, HCC827, MOTO-211H, NCI-H69, NCI-H292, NCI-H358, NCI-H460, NCI-H520, NCI-H522, NCI-H526, NCI-H727, NCI-H820, NCI-H1299, NCI-H1373, NCI-H1568, NCI-H1581, NCI-H1650, NCI-H1703, NCI-H1975, NCI-H2122, NCI-H2228, NCI-H3122, NCI-H3255, PC9
Lymphoma	Daudi, DB, DOHH2, HH, JeKo-1, Karpas299, MAVER-1, Mino, OCI-LY10, OCI-LY19, Raji, RL, SR, SU-DHL-1, SU-DHL-2, SU-DHL-4, SU-DHL-6, TMD-8, WSU DLCL2
Melanoma	A375, C32
Myeloma	MM.1R, MM.1S, NCI-H929, OPM-2, RPMI-8226
Osteosarcoma	SJSA-1
Ovary	A2780, OVCAR-3, OVCAR-8, PA-1, SK-OV-3
Pancreatic cancer	AsPC-1, Bx PC-3, Capan-1, Capan-2, CFPAC-1, HPAF-II, Mia PaCa-2, PANC-1, SU.86.86, SW1990
Prostate	22RV1, DU145, LnCap, LNCaP-F877L mut, PC-3, Vcap
Renal cancer	786-O, A498, ACHN, OS-RC-2
Skin cancer	A-431
Urinary bladder cancer	5637, HT1376, RT4, UM-UC-3

Cancer Type	Cell Line
Breast cancer	201B, 203B
Cervix	371Ce
Colon cancer	002C, 008C, 011C, 013C, 015C, 016C, 020C, 021C, 057C, 058C, 059C, 060C, 061C, 062C, 064C, 065C,
Endometrium	
Esophagus cancer	
Gastric cancer	
Head and neck cancer	
Leukemia	
Liver cancer	
Lung cancer	
Lymphoma	
Myeloma	
Ovary	
Pancreatic cancer	
Prostate	
Renal cancer	
Sarcoma	
Urinary bladder cancer	

## Syngeneic Models

Cancer Type	Cell Line
Brain cancer	Neuro-2a
Breast cancer	4T1, EMT6, EO771, JC
Colon cancer	Colon26, CT26.WT, MC-38
Leukemia	C1498, L1210, WEHI-3
Liver cancer	H22
Lung cancer	KLN205, LLC1, M109
Lymphoma	A20, E.G7-OVA, EL4, L5178-R
Mastocytoma	P815
Melanoma	B16, B16-F0, B16-F10, Clone-M3, YUMM1.7
Myeloma	J558
Pancreas cancer	KPC, Panc 02
Prostate	RM-1
Renal cancer	RENCA
Sarcoma	S180, WEHI-164
Urinary bladder cancer	MB49

## Humanized Models (PBMC, HSC CD34<sup>+</sup>)

Cancer Type	Cell Lines in PBMC or HSC CD34 <sup>+</sup> Humanized Mice
Brain cancer	U-87 MG
Breast cancer	HCC70, HCC1954, JIMT-1, MDA-MB-231, MDA-MB-468
Colon cancer	HT-15, HT29, LoVo, Ls174T
Gastric cancer	NCI-N87, NUGC-4
Leukemia	MOLM-13, THP-1
Liver cancer	Hep G2, HuH-7
Lung cancer	A549, HCC827, NCI-H292, NCI-H838, NCI-H1975
Lymphoma	Raji, TMD8
Melanoma	A375
Myeloma	MM.1S, NCI-H929, RPMI-8226
Ovarian cancer	OVCAR-3
Pancreatic cancer	Capan-2
Renal cancer	786-O, A498
Skin cancer	A431
Urinary bladder cancer	UM-UC-3

## Orthotopic Models

Cancer Type	Orthotopic Model (Human)	Orthotopic Model (Mouse)
Brain cancer	LN299-luc, U87-MG-luc, U251-luc	G261-luc
Breast cancer	BT-474-luc, MCF-7-luc, MDA-MB-231-luc	4T1-luc
Colon cancer	HCT-116-luc, HT29-luc	MC38-luc
Gastric cancer	NCI-N87-luc	/
Leukemia	K562-luc, MOLM-13-luc, MV-4-11-luc, Nalm-6-luc, THP-1-luc	/
Liver cancer	HuH-7-luc, Hep G2-luc	H22-luc
Lung cancer	A549-luc, NCI-H460, NCI-H1650-luc, NCI-H1975-luc	LLC1-luc
Lymphoma	Raji-luc, JeKo-1-luc	/
Melanoma	A375-luc	B16-F10-luc
Myeloma	NCI-H929-luc, MM.1S-luc, OPM-2-luc	/
Ovary	OVCAR-3-luc, SK-OV-3-luc	/
Pancreatic cancer	Mia-Paca 2-luc, PANC-1-luc	Panc 02-luc
Prostate	PC-3-luc	/
Renal cancer	A498-luc	/
Sarcoma	HT1080-luc, SJSA-1-luc	/
Urinary bladder cancer	UM-UC-3-luc	MB49-luc



## Digestive System Models

Diseases	Model	Animals
Gastric acid secretion and Gastric ulcer	Gastric ulcer model induced by Pyloric ligation	Rat
	Histamine induced gastric acid secretion model	Rat
	Ethanol induced gastric ulcer model	Mouse
	Non-steroidal anti-inflammatory drug induced gastric ulcer model	Rat
	Gastric ulcer model induced by water bundle stress	Rat
	Acetic acid induced chronic gastric ulcer model	Rat
	Reflux esophagitis model	Rat
	Chronic atrophic gastritis model	Rat
Inflammatory Bowel Disease (IBD)	Ulcerative colitis model induced by TNBS	Rat
	Ulcerative colitis model induced by DNBS	Rat
	Ulcerative colitis model induced by DSS drinking water	Mouse
Gastric and intestinal motility disorders	Gastric and intestinal motility model	Mouse/Rat
	Functional dyspepsia model	Rat
	Diarrhea and constipation model	Mouse/Rat

## Inflammation and Immune System Models

Diseases	Model	Animals
Arthritis	Acute joint inflammation induced by Carrageenan	Rat
	Acute joint inflammation induced CFA	Mouse/Rat
	Rheumatoid arthritis induced by II Collagen (CIA model)	Mouse/Rat
	Rheumatoid arthritis induced by Complete Freund's Adjuvant (AIA model)	Rat
	Gouty arthritis model induced by Sodium urate	Rat
Osteoarthritis	Sodium iodoacetate (MIA) induced osteoarthritis	Rat
	Partial Medial Meniscectomy (pMMx) induced osteoarthritis	Rat
	Partial Medial Meniscectomy with Anterior Cruciate Ligament severed (pMMx + ACLT) osteoarthritis	Rat
Osteoporosis	Osteoporosis model of castrated female rat	Rat
	Osteoporosis model induced by Retinoic acid A	Rat
	Glucocorticoid-induced osteoporosis model	Rat
Psoriasis	Estrogen induced vaginal epithelium mitosis	Mouse
	Tail scale model	Mouse
	IL-23 induced auricle epidermal dysplasia	Mouse
	Back skin psoriasis induced by Imiquimod	Mouse
Atopic dermatitis and eczema	Chronic atopic dermatitis model induced by DNFB	Mouse/Rat
	Subacute eczema-like model induced by DNFB	Mouse
	Eczema-like model induced by Phorbol ester	Mouse
Multiple sclerosis , Amyotrophic lateral sclerosis (MS, ALS)	EAE allergic encephalomyelitis (EAE) model	Mouse
	Cuprizone-induced demyelination of brain tissue	Mouse
Acute inflammation	Auricle swelling model	Mouse
	Toe swelling model	Rat
	Capillary permeability test	Mouse/Rat
	Granuloma proliferation model	Rat

Bleeding time (BT), Coagulation time (CT)

Arteriovenous bypass thrombosis model

Rat model of deep vein thrombosis

Carotid artery thrombosis model

Caudal vein thrombosis induced by Carrageenan

Cerebral ischemia reperfusion

Time window for treatment of cerebral ischemia reperfusion injury

The neuroprotective effect of cerebral ischemia reperfusion

Permanent cerebral infarction model

Hypoferric anemia

Renal anemia induced by 5/6 Nephrectomy

Renal anemia induced by Adenine

Diseases	Model	Animals
Skin healing	Full-thickness skin trauma model	Mouse/Rat
	Diabetic foot ulcer model	db/db Mouse
	Standardized Scalding Burn Model	Rat
Leukopenia	Cyclophosphamide induced	Mouse/Rat
	Cytarabine induced	Rat
	Adriamycin induced	Rat
	Cisplatin induced	Rat
Respiratory system	Pulmonary fibrosis model induced by Bleomycin	Mouse/Rat
	Pulmonary fibrosis model induced by Paraquat	Rat
	Silicotic model induced by Silicon dioxide	Mouse/Rat
	Expelling phlegm test (phenol red excretion method)	Mouse
	Pulmonary inflammation induced by LPS	Mouse
	Tracheal goblet cell staining counts	Mouse
Allergic rhinitis	Induced by OVA + Aluminum hydroxide	Mouse
	Induced by OVA + DPT vaccine induction without cell	Rat
Prostatic disease	Prostatic hyperplasia model (Normal/Castration)	Mouse/Rat
	Prostatic hyperplasia induced by Androgen	Mouse/Rat
	Nonbacterial prostatitis	Rat
Sexual dysfunction(BE)	Erectile function test in normal rat	Rat
	Erectile function test in castrated rat	Rat
	Sexual behavior test experiment (Back climbing experiment)	Rat
Alopecia and Alopecia areata	Hair loss induced by Testosterone propionate	Mouse/Rat
	Rosin and Paraffin + Testosterone propionate induced alopecia	Mouse
	Imiquimod induced alopecia areata	Mouse
	Cyclophosphamide induced alopecia areata	Mouse
Gynecological disease	Mammary hyperplasia model	Rat
	Uterine fibroid model	Rat
	Endometriosis model	Mouse/Rat
Itch model	Pruritus induced by Chloroquine	Mouse
	Pruritus induced by Dextranum	Mouse
	Pruritus induced by Istamine	Mouse
Hyperthyreosis	Secondary hyperthyroidism model	Mouse/Rat



## MEDICILON

**Email:** [marketing@medicilon.com](mailto:marketing@medicilon.com)    **Website:** [www.medicilon.com](http://www.medicilon.com)

**Address:** 20 Maguire Road, Suite 103, Lexington, MA 02421, USA  
585 Chuanda Road, Pudong, Shanghai, 201299, China