

# 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

Hypoferic 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

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