

Southern Research Animal Models

Available Models- Small Animals

Pathogen	Animal Species	Route*
Coronavirus (SARS-CoV-2)	hACE2 AC70 Mouse	IN
Coronavirus (SARS-CoV-2)	Syrian hamster	IN
Coronavirus (SARS-CoV-2 MA10)	BALB/c mice	IN
Orthopoxviruses (Vaccinia, Ectromelia)	Mouse	IN
Orthopoxviruses (Rabbitpox)	Rabbit	IN, ID
Coxsackievirus B3 (Nancy)	Mouse	IP, PO
Herpes Simplex Virus (HSV-1 and 2)	Mouse, Guinea Pig, Rabbit	Scar, IN, IVG
Influenza A-H1N1 Mouse adapted	Mouse	IN
Influenza A – HPAI (H5 and H7)	Mouse, Ferret	IN
Influenza A – seasonal	Mouse, Ferret	IN
Pichinde (RVFV model)	Mouse	IP, IC
Respiratory syncytial virus (RSV)	Cotton Rat, Mouse	IN
SARS-CoV-1	Mouse, Ferret	IN
Venezuelan and Western equine encephalitis	Mouse, Guinea Pig	IN, IP
West Nile Virus	Mouse	IP, SC, IC
Zika Virus	AG129 Mouse	SC
Yellow Fever (YF17D)	AG129 Mouse	IP
Chikungunya virus	A129/C57BL6J Mouse	FP
Hepatitis B Virus	Mouse	IV
Dengue virus (DENV-2 and 1)	AG129 Mouse	IV, IP
Human metapneumovirus (HMPV)	Under Development	IN

Available Models- NHP

Pathogen	Animal Species	Route
Coronavirus (SARS-CoV-2)	Rhesus macaque, Cynomolgus macaque, African Green Monkey	IN/IT
Monkeypox (MPXV)	Cynomolgus macaque, Rhesus macaque	IT, IV
Zika Virus	Cynomolgus macaque, Rhesus macaque	SC
Dengue Virus (DENV1-4)	Cynomolgus macaque	SC, IC
Respiratory syncytial virus (RSV)	African Green Monkey	IN
SIV, SHIV	Rhesus macaque	IVG, IV
West Nile Virus	Cynomolgus macaque	IC
Yellow Fever (YF17D)	Cynomolgus macaque	IC, SC
Venezuelan, Western and Eastern equine encephalitis	Cynomolgus macaque	SC

*Acronyms for Routes of Administration

IN = Intranasal IT = Intratracheal FP = Foot Pad IC = Intracranial
 PO = Oral gavage IP = Intraperitoneal IV = Intravenous IVG= Intravaginal
 SC = Subcutaneous Scar = Scarification ID = Intradermal