

Collection

Help us build an extensive inventory of animal health models!

What is ModAH Collection?

An extensive repository of mathematical models for epidemiological systems.

Objectives

Facilitates search, access and reuse models for the animal

How You Can Contribute

Add your model(s) by filling in the dedicated form on the website.

Want to know more?

Come to talk with us during the conference and visit the ModAH

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health scientific community.

COTT	ection	website.

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Mod	IAH Col	lection Model	list Ad	d a model							
ID	Year	Туре	Pathogen(s)	Host(s)	Scale	Timestep	Stoch. or Det.	Implementation	Prog. lang.	GitRepo	Ref
1	2024	Mechanistic model	ASF	Pigs	population	discrete-time	stochastic	Compartment model	Python	<u>Yes</u>	<u>Yes</u>
2	2023	Mechanistic model	WNV	Mosquitoes	metapopulation	continuous-time	determinist	EDO	R	No	No
3	2022	Mechanistic model	Bovine TB	Cows, Badgers	within host/vector, population	discrete-time	stochastic	Indiv. & agents based	Java	No	Yes
4	2024	Mechanistic model	Avian Flu	Chickens, Ducks	within host/vector, pop., metapop.	continuous-time	determinist	EDP	Julia	No	No
5	2021	Mechanistic model	FMD	Cows, Sheep	population	discrete-time	stochastic	Compartment model	C++	Yes	Yes
6	2022	Mechanistic model	USUTU	Birds	metapopulation	continuous-time	determinist	EDO	Python	No	No
7	2023	Mechanistic model	RVFV	Cows, Goats	within host/vector, population	discrete-time	stochastic	Indiv. & agents based	EMULSION	No	Yes
8	2020	Mechanistic model	BTV	Sheep	population, metapopulation	continuous-time	determinist	EDP	C/C++	No	No
9	2023	Mechanistic model	EHD	Deer	within host/vector	discrete-time	stochastic	Compartment model	NetLogo	Yes	Yes
10	2021	Mechanistic model	WNV	Cullicoides	population, metapopulation	continuous-time	determinist	EDO	SimInf	No	No
11	2021	Mechanistic model	Bovine TB	Cows, Deer	within host/vector, population	discrete-time	stochastic	Indiv. & agents based	Java	No	Yes
12	2020	Mechanistic model	USUTU	Birds, Mosquitoes	population, metapopulation	continuous-time	determinist	EDO	R	No	No
13	2023	Mechanistic model	FMD	Cows, Sheep, Goats	within host/vector, pop., metapop.	discrete-time	stochastic	Compartment model	Python	Yes	Yes
14	2024	Mechanistic model	WNV	Mosquitoes, Birds	population	continuous-time	determinist	EDO	Julia	No	No
15	2023	Mechanistic model	ASF	Pigs, Wild Boars	population	discrete-time	stochastic	Indiv. & agents based	C++	No	Yes
16	2022	Mechanistic model	Avian Flu	Chickens, Ducks, Geese	within host/vector, population	continuous-time	determinist	EDP	Python	No	No
17	2021	Mechanistic model	BTV	Sheep, Deer	population, metapopulation	discrete-time	stochastic	Compartment model	NetLogo	Yes	Yes
18	2024	Mechanistic model	EHD	Deer, Mosquitoes	population	continuous-time	determinist	EDO	R	No	No
19	2023	Mechanistic model	RVFV	Cows, Goats, Sheep	within host/vector, population	discrete-time	stochastic	Indiv. & agents based	C/C++	No	Yes
20	2022	Mechanistic model	Bovine TB	Cows, Badgers	population, metapopulation	continuous-time	determinist	EDO	Python	No	No
21	2024	Mechanistic model	FMD	Cows, Pigs	within host/vector, population	discrete-time	stochastic	Compartment model	Java	Yes	Yes
22	2022	Mechanistic model	USUTU	Birds, Mosquitoes	metapopulation	continuous-time	determinist	EDO	R	No	No
23	2021	Mechanistic model	Avian Flu	Chickens, Ducks, Turkeys	within host/vector, pop., metapop.	discrete-time	stochastic	Indiv. & agents based	Python	<u>Yes</u>	Yes
24	2023	Mechanistic model	WNV	Birds, Mosquitoes	population	continuous-time	determinist	EDO	Julia	No	No
25	2020	Mechanistic model	RVFV	Cows, Goats, Sheep	within host/vector, population	discrete-time	stochastic	Compartment model	C++	No	Yes
26	2023	Mechanistic model	BTV	Sheep, Cows	population, metapopulation	continuous-time	determinist	EDP	Python	No	No

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	Model list		ModAH collection	
		ModAH collection		
		This form allows you to submit epidemiological models to be included in the list of models available on the ModAH-Collection webpage. In the case of multiple submissions, please do not hesitate to contact us so that we can offer you a more suitable alternative.		
		Connectez-vous à Google pour enregistrer votre progression. En savoir plus		
		* Indique une question obligatoire		
		Adresse e-mail*		
		Votre adresse e-mail		
		First name		
		Votre réponse		
		Last name		
		Votre réponse		
		Year* (year the model was created)		
		Votre réponse		
		Type *		



https://dynamo.pages.mia.inra.fr/
modah/modah-collection

