

## **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

