



# Comparing equation- agent- and network-based models

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**Let us compare the three types of models and simulations**

**Equation**

**Agents**

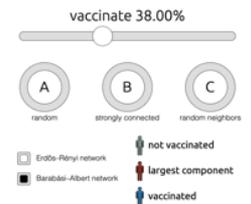
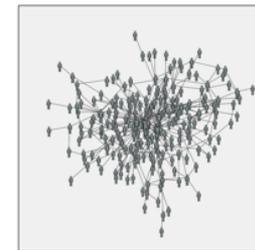
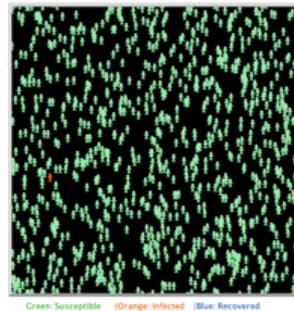
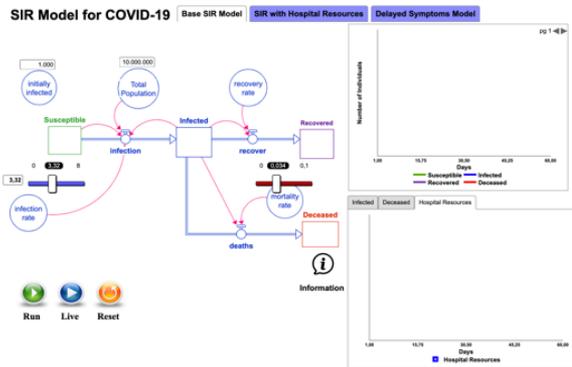
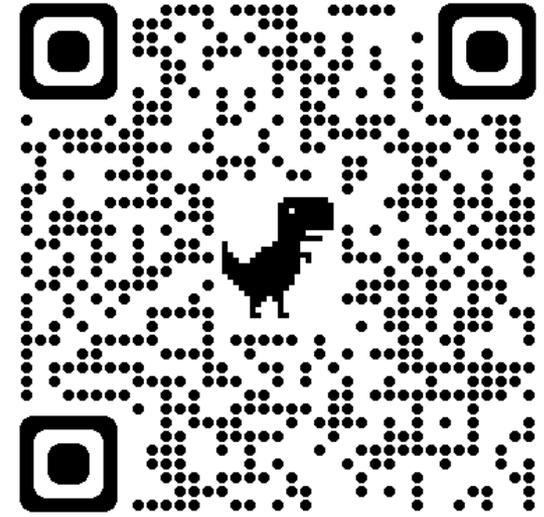
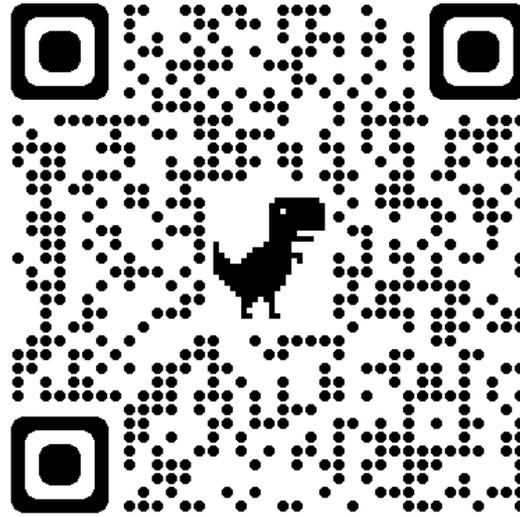
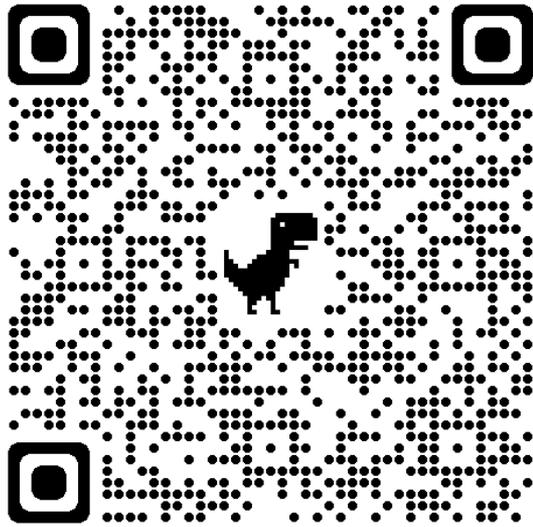
**Network**

<https://sites.google.com/site/biologydarkow/physiology/covid-19-sir-simulation>

[http://modelingcommons.org/browse/one\\_model/6279#model\\_tabs\\_browse\\_nlw](http://modelingcommons.org/browse/one_model/6279#model_tabs_browse_nlw)

<https://www.complexity-explorables.org/slides/facebooked-flu-shots/>

# Equation-based Agent-based Network



	Equation-based models	Agent-based models	Network models
What kind of phenomena does the model allow us to deal with?			
Which variables and parameters are chosen to model the system?			
What spatial and temporal structures are incorporated?			
What assumptions is the model based on?			
What is the connection between the model and its computational implementation (in a simulation)?			
What allows us to visualise the simulation of models, in relation to the system to be studied?			

**Based on the table you have compiled, do you think the different models allow you to recognise the complexity of the system at play?**

**Are there models that make it easier to catch than others?**

**If so, why?**