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Title: Quantifying rotavirus kinetics in the REH tumor cell line using in vitro data

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Highlights

- A viral kinetics model is fit to experimental data of rotavirus infection for the first time.
- The time course of the infection is quantified, estimating an infecting time of 2 minutes, an eclipse duration of 7.25 h and an infectious cell lifespan of 46.2 h.
- The number of infectious virus produced over the lifespan of the cell is found to be 1.42×10^5 FFU/mL, but the number of virions needed to infect a cell is 1420 FFU/mL.

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