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Cell fate decision in *Chlamydia Trachomatis*

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Chlamydia trachomatis is the most common cause of bacterial sexually transmitted infection. It can also infect the eyes and is a major cause of blindness in many developing countries. During the infection of a mammalian host, *Chlamydia* must decide when to proliferate and when to convert into a differentiated form, since the differentiated form is the only form to survive outside the host but cannot reproduce. We study the question of *Chlamydia* cell fate regulation using experimental data as well as stochastic mathematical modelling.

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