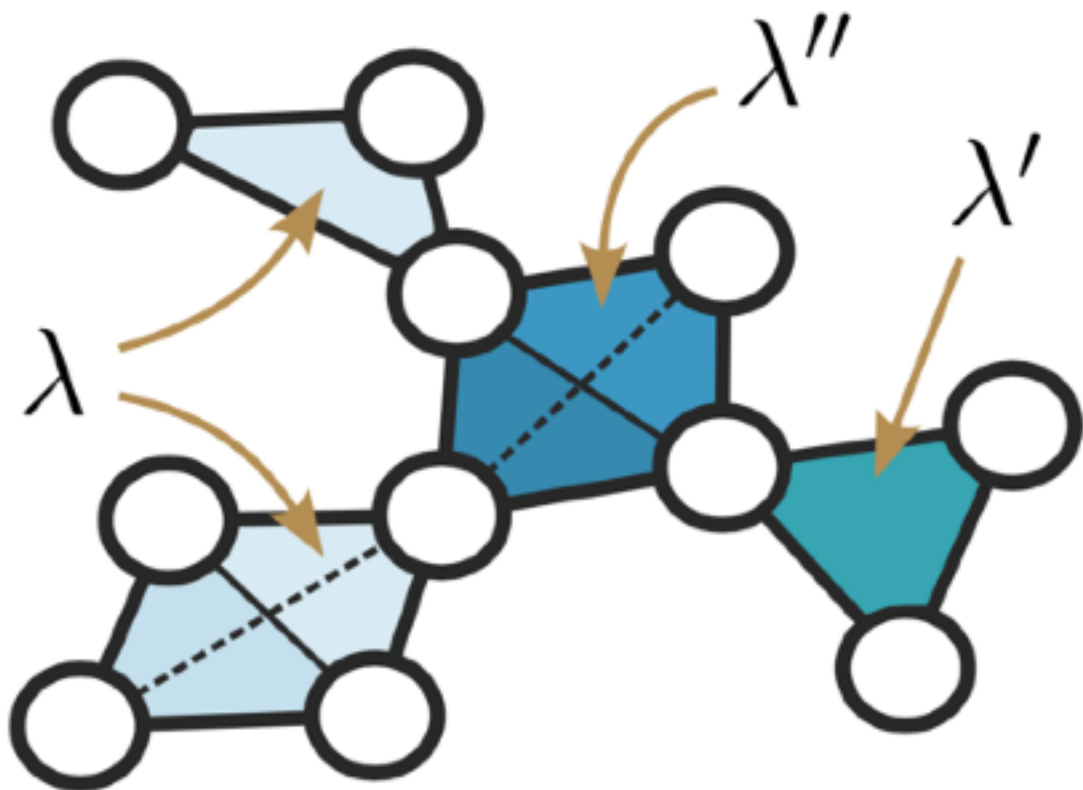




A Weighted hypergraph



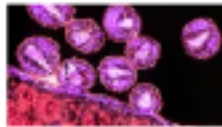
$$\lambda'' > \lambda' > \lambda$$

Heterogeneous transmission settings

JAMA Insights

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Reviews in Medical Virology

REVIEW



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Thomas P. Weber^{a,*}, Nikolaos I. Stilianakis^{a,b}

Original Article

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Stephan T. Leu^{*}, Pratha Sah, Ewa Krzyszczyk, Ann-Marie Jacoby, Janet Mann, and Shweta Bansal

Notation: $\lambda \equiv \beta$.

We include context by allowing each group to have an individual β drawn from a density $f(\beta|n)$.

The context of contacts matters for transmission

- ▷ COVID-19
- ▷ Influenza A
- ▷ STIs
- ▷ ...

What are the possible effects of ignoring context?

Heterogeneous transmission settings

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Journal of Infection (2008) 57, 361–373



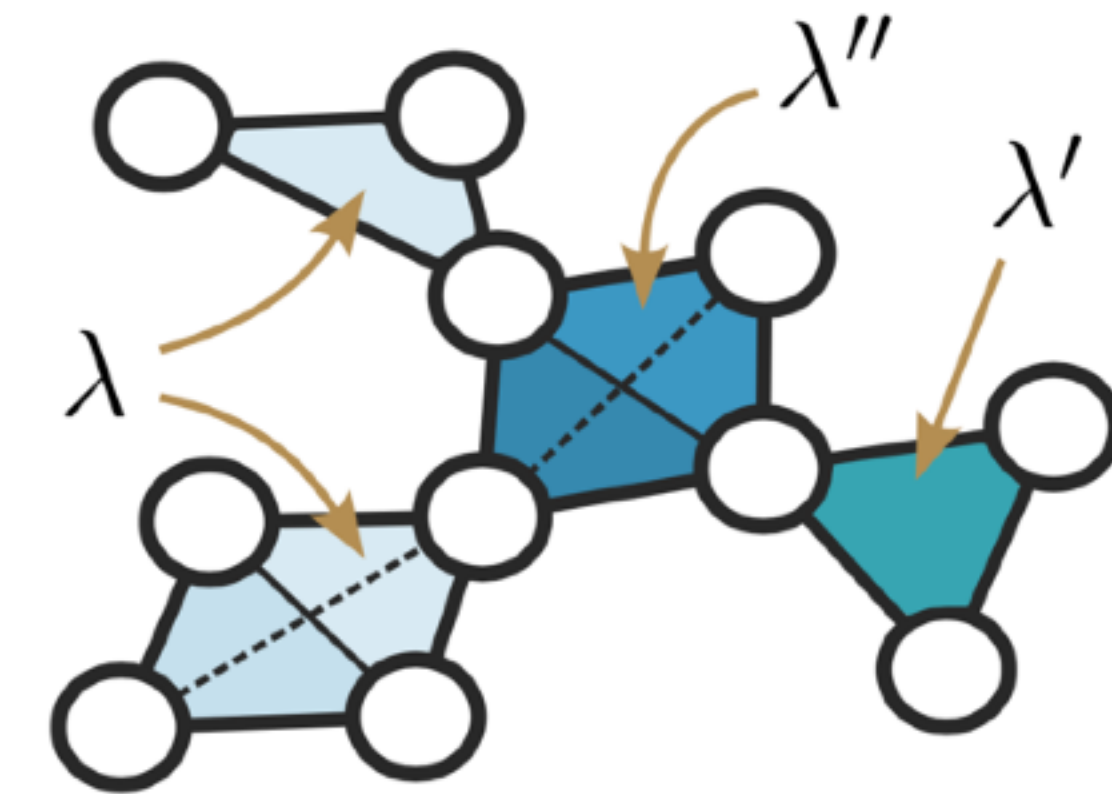
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$$\lambda'' > \lambda' > \lambda$$

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Behavioral Ecology (2020), 31(5), 451–460. doi:10.1093/beheco/ara092

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Heterogeneous transmission settings

Detailed description of the dynamics at the groups level with $\Theta_{n,i,\beta} = i\beta$ (“simple contagion”)

$$\frac{dG_{n,i}^{\beta}}{dt} = \mu(i+1)G_{n,i+1}^{\beta} - \mu i G_{n,i}^{\beta} + (n-i+1)[(i-1)\beta + \rho]G_{n,i-1}^{\beta} - (n-i)[i\beta + \rho]G_{n,i}^{\beta}$$