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Unraveling within-host signatures of dengue infection at the population level

Ryan Nikin-Beers, Julie C Blackwood, Lauren M Childs, Stanca M Ciupe

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Highlights

- A multi-scale immuno-epidemiological model of dengue infection is proposed.
- An analytical threshold under which infections persist in the population is determined.
- A full numerical scheme for a two-strain immuno-epidemiological model is developed.
- Effects of within-host disease severity on population persistence are addressed.

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