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Host-pathogen dynamics under sterilizing pathogens and fecundity-longevity trade-off in hosts

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Highlights

- We explore impacts of longevity increase due to infection-induced sterility.
- Hosts may achieve higher density than when pathogen does not affect mortality.
- Using sterilizing pathogens for pest control may be less effective than expected.
- Sterilizing infection may enhance density of hosts featuring sexual selection.

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