

An egg is always an adventure: anthropogenic impacts on Culex pipiens population dynamics

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Stellingen

Behorende bij het proefschrift

An egg is always an adventure

- 1. Mosquitoes are important benefactors of anthropogenic change (This thesis, Chapters 2 and 4).
- 2. Interactive effects between stressors are prevalent, highlighting the need to include multiple and combined stressors in ecological research (This thesis, Chapter 2).
- 3. Including ecological realism by adding temporal fluctuations in stressors increases the accuracy of measured traits (This thesis, Chapter 3).
- 4. The historical ecological context informs us on when patterns may be extrapolated, or when additive research is required (This thesis, Chapter 4).
- 5. Facilitating natural processes like predation may prove to be valuable interventions, by both limiting mosquito survival, and deterring colonization altogether (This thesis, Chapter 5).
- 6. Most projections of vector abundance and disease transmission are likely to be biased because they are based on traits measured under optimal conditions (Adapted from Huxley et al., 2021).
- 7. An understanding of interactions is needed for the extrapolation of experimental results to ecosystems (Adapted from Heugens, 2001).
- 8. In reality, a suite of interacting factors modulates the ability of species to survive in their habitat and these factors can only be uncovered by examining field populations (Adapted from Phelan, 2023).
- 9. The multifaceted nature of contemporary health issues, including emerging diseases and climate change impacts, necessitates a concerted effort that transcends traditional disciplinary boundaries (Adapted from Danasekaran, 2024).
- 10. Science is an iterative process built not only on 'giants', but perhaps more so by the many small, and sometimes misgiven findings.
- 11. Provided the right mindset, everything in life becomes a side project.