

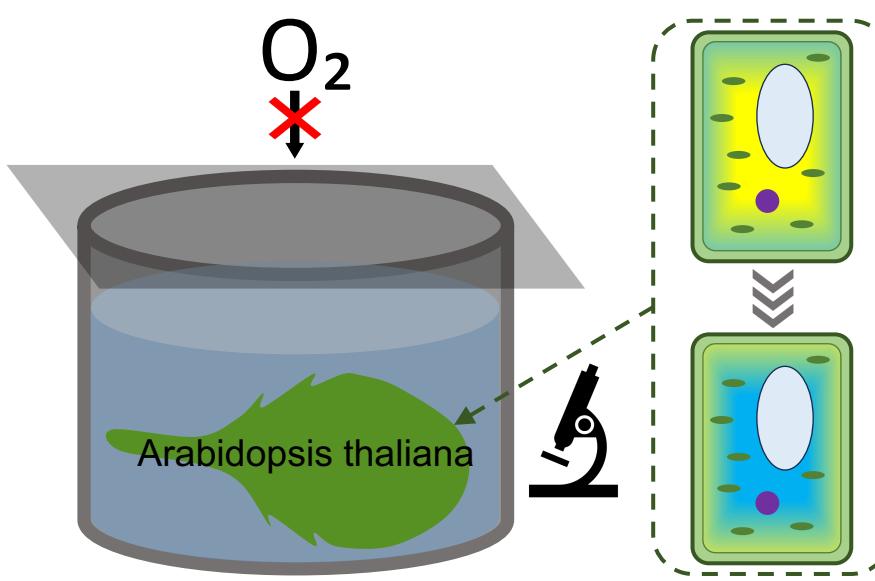
- System state
- Prediction

- Training data
- Predicted fold bifurcation

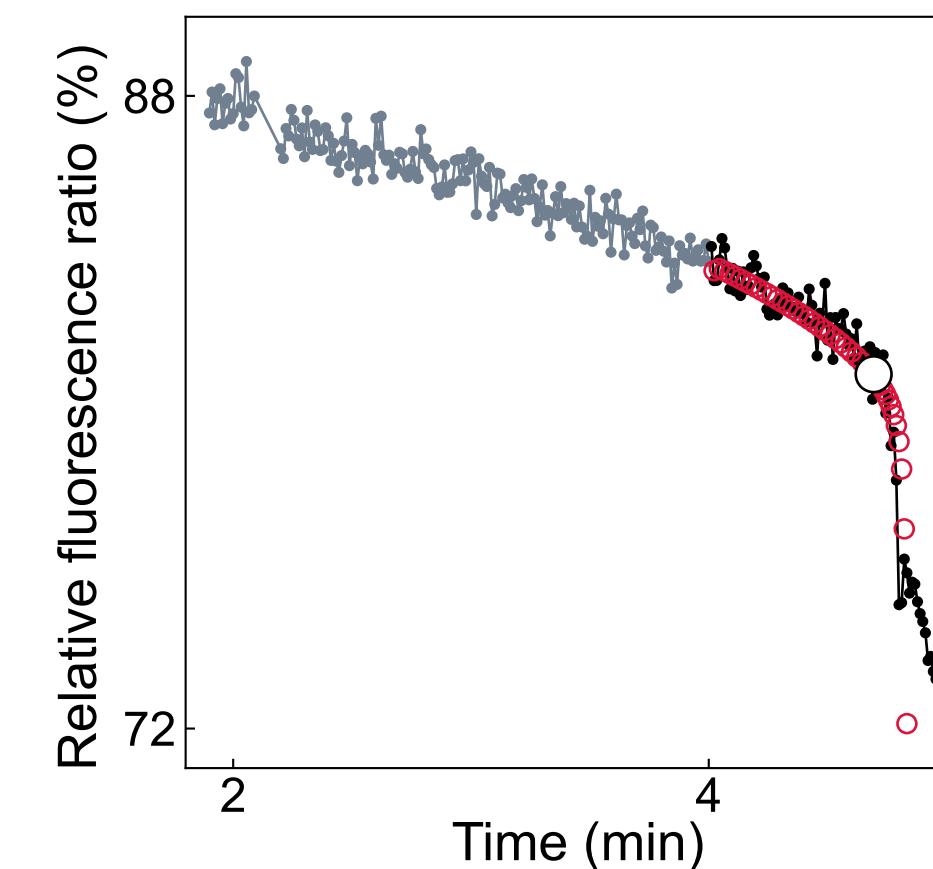
- Calculated UAV horizontal thrust
- Predicted period-doubling bifurcation

a

Experiment illustration

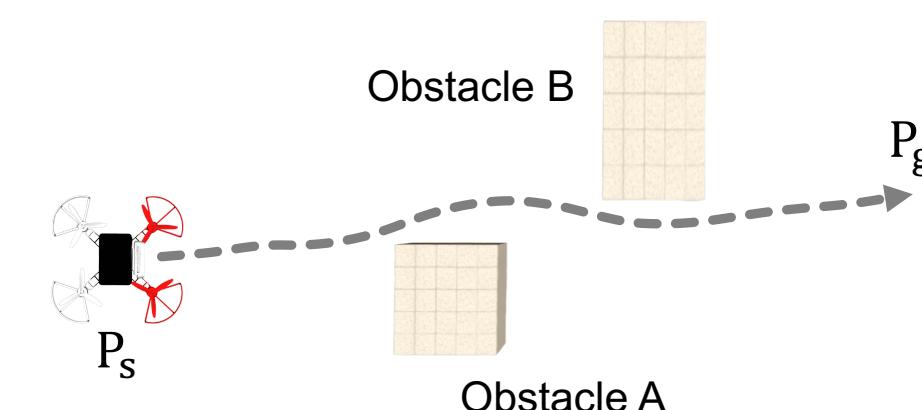


b *Cellular energy depletion*



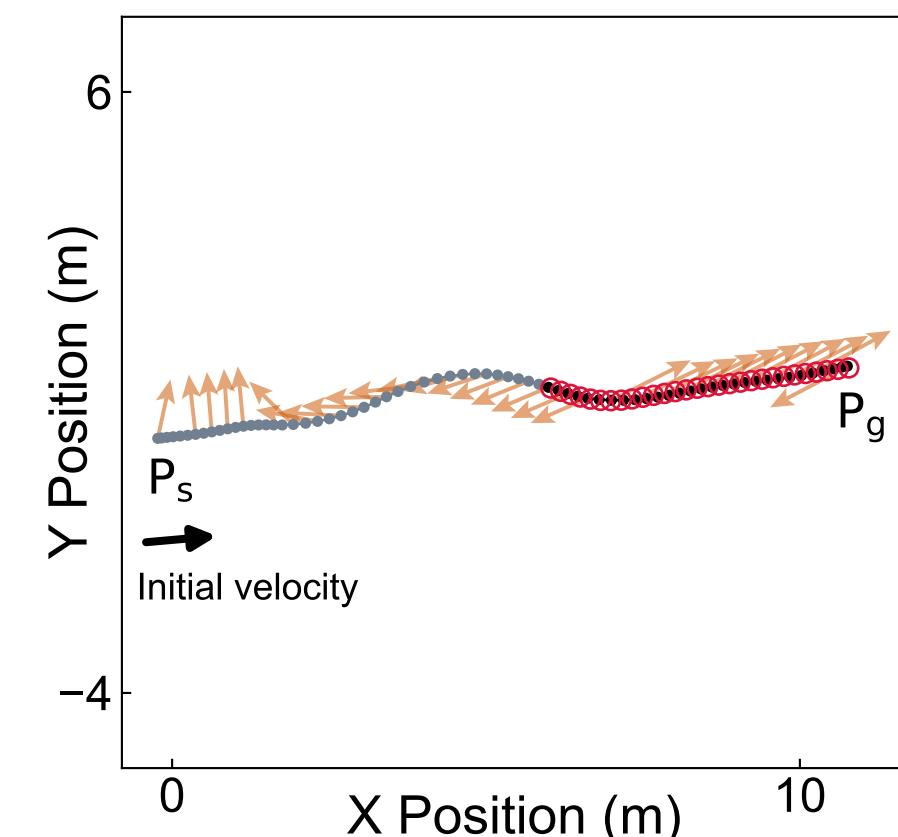
6

Experiment illustration



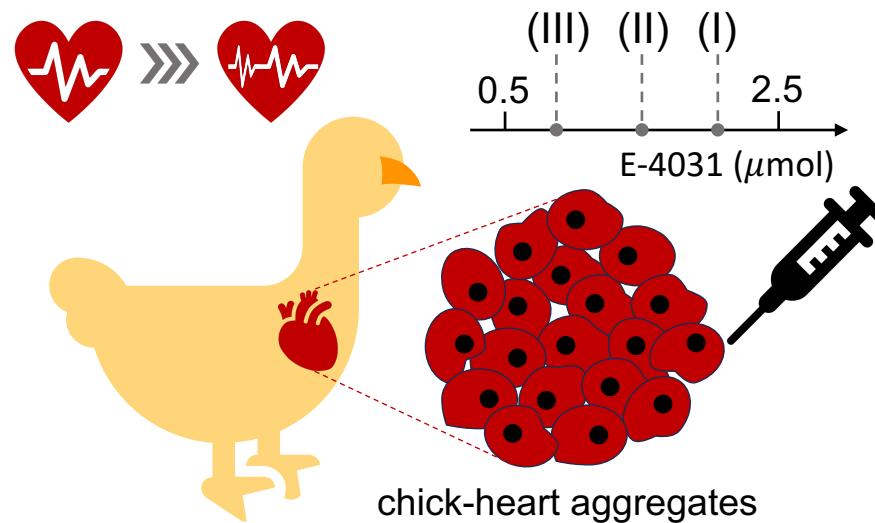
d

UAV autonomous flight

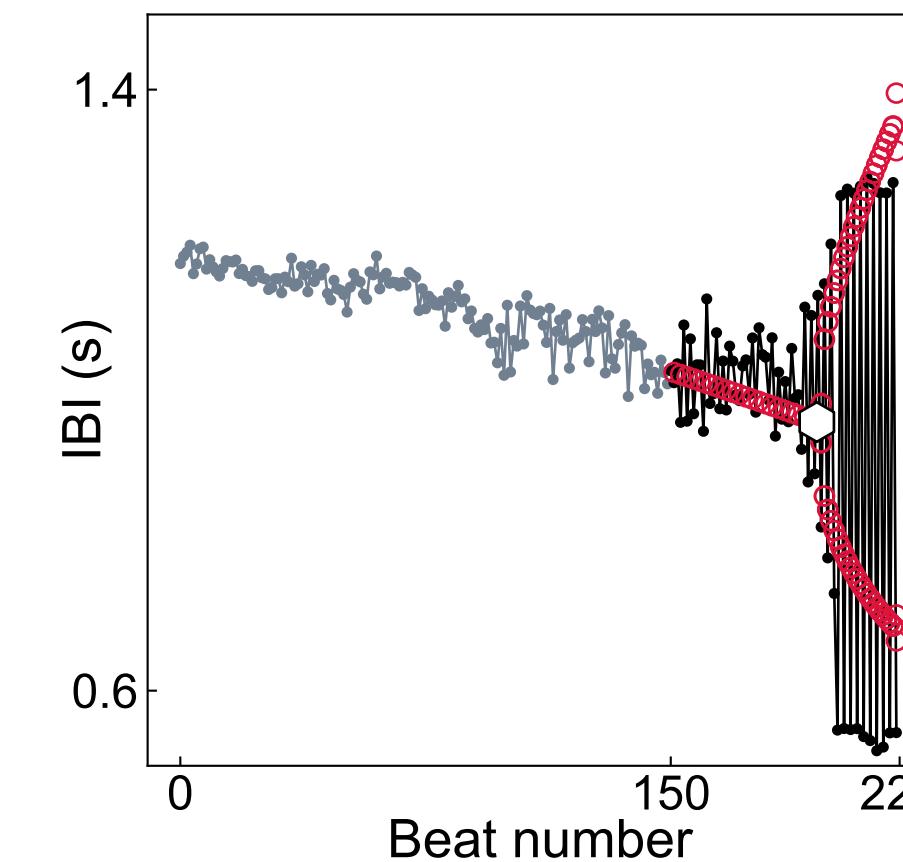


e

Experiment illustration

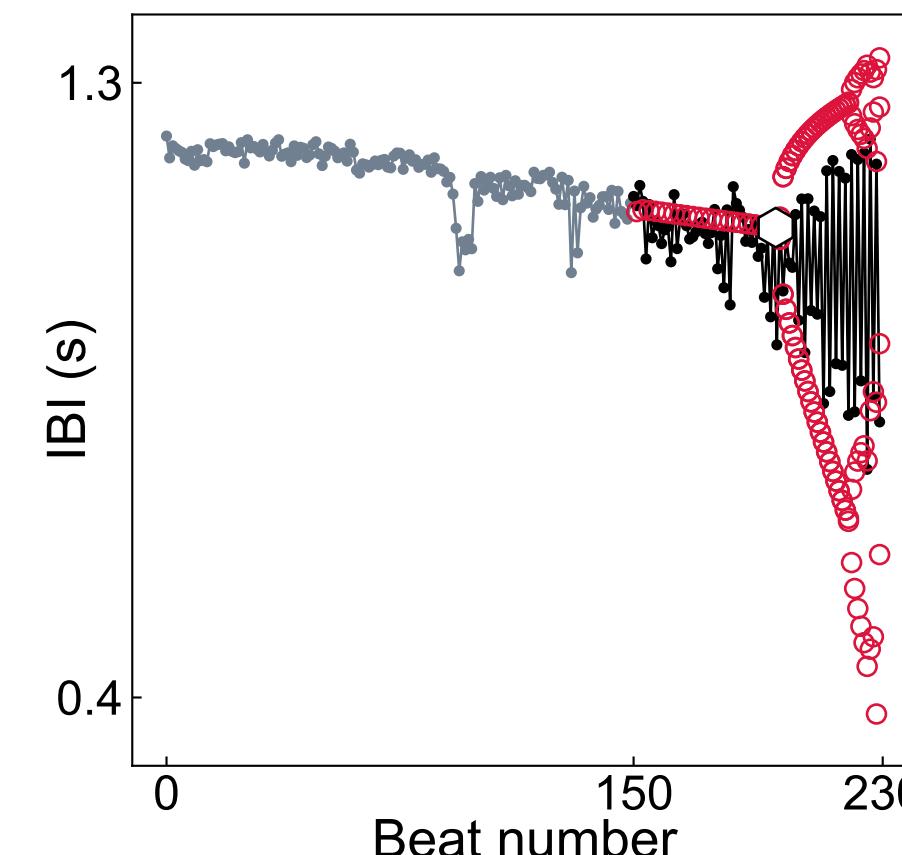


f *Beating chick-heart (I)*



g

Beating chick-heart (II)



h

Beating chick-heart (III)

