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Exploiting body mechanics to produce exploratory behaviour.

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lateral motion and substrate exploration is unclear.

direction of movement (either forward/backward, or left/right).



- The larval midline is modelled as a set of discrete point masses.



5. Conclusions

- Conservative body mechanics produces motions (axial travelling waves, chaotic transverse bending) suitable for substrate exploration.
- This allows stable forward and backward locomotion as well as turning/exploration to be generated by a single, simple reflex circuit.
- Intrinsic pattern generation and explicit encoding and control of the direction of travel are, in principle, unnecessary for successful exploration.

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