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Selection for synchronized cell division in simple multicellular organisms

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## 1 Highlights

- 2 • Multicellular organisms are built by repeated cell divisions.
- 3 • These cell divisions can be synchronous or asynchronous.
- 4 • Simple organisms produced by synchronous or asynchronous cell division compete.
- 5 • Natural selection acts differently on synchronous and asynchronous cell division.
- 6 • We show why synchronous and asynchronous phenotypes are not neutral variants.

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