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Proper selection of 1g controls in simulated microgravity research as shown for clinorotated plant cell suspension cultures

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Highlights

- 2D clinorotation is used to simulate microgravity for cell cultures.
- Microgravity decouples plant cell proliferation and cell growth.
- Definition of 1g control conditions is not trivial for cultures.
- Shaking 1g control induces stress responses in the cells.
- Non-shaking 1g control leads to cell viability issues.

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