
# Control of Cell Fraction and Population Recovery during Tissue Regeneration in Stem Cell Lineages

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## Highlights

- Three variants of a stem cell lineage model are presented and compared.
- Parameter sensitivity analysis is performed for different performance objectives.
- Feedback on stem cell replication is required for control of stem/TA cell ratio.
- Feedback on stem cell division rate reduces amplitude of oscillation.
- Feedback on cell division rates and stem cell replication gives robust behavior.