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How leaking and overproducing resources affect the evolutionary robustness of cooperative cross-feeding

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1 **Highlights**

- 2 • Recent work found two novel mechanisms for making cross-feeding robust
3 to cheating.
- 4 • We study if these mechanisms are robust to slow evolution to non-production.
- 5 • The result depends critically on what causes microbes to share resources.
- 6 • We offer a novel approach to studying spatially and temporally varying
7 co-evolution.

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