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Noise slows the rate of Michaelis-Menten reactions

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Highlights

- Substrate noise slows the rate of isolated Michaelis-Menten reactions.
- Reaction network architecture determines if this slow-down is buffered by feedback.
- With substrate dilution, as occurs in living cells, noise always slows MM reactions.
- Predictions proved to be more accurate with QSSA than elementary reactions.

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