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The role of stochastic sequestration dynamics for intrinsic noise filtering in signaling network motifs

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Highlights

- Cascading in signaling networks reduces intrinsic noise at the output
- Reduction comes from a time-varying sequestration in the upstream terminal kinase
- Sequestration results into correlation between the up and downstream modules
- Positive correlations enhance the noise reduction in terms of output variation
- Relevant to biological context as well

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