



# The role of microRNAs in controlling protein expression noise

*Jörn Schmiedel*

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## **The role of microRNAs in controlling protein expression noise** Jörn Schmiedel

Der Expression von Genen liegen stochastische Prozesse zu Grunde, die zu Fluktuationen in der Menge von Proteinen eines jeden Gens führen. Zu starke Fluktuationen in Proteinmengen können für Organismen schädlich sein, da die meisten zellulären Prozesse auf der präzisen Wechselwirkung von Proteinen beruhen.

Diese Dissertationsschrift befasst sich mit dem Einfluss von post-transkriptionellen Regulationsmechanismen auf die stochastischen Prozesse der Genexpression. Mittels bioinformatischer Datenanalyse, mathematischer Modellierung und gezielten Einzelzellexperimenten wird mit Fokus auf die in Mehrzellern weitverbreiteten microRNAs erforscht unter welchen Voraussetzungen Organismen post-transkriptionelle Regulation zu Verringerung von Fluktuationen benutzen können.

Die zentrale Erkenntnis der vorliegenden Arbeit ist, dass microRNAs für die meisten Gene Fluktuationen verringern können und auch zu diesem Zweck genutzt werden.

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