



## publications

**S. Menz, J.C. Latorre, C. Schütte and W. Huisinga**

### **Hybrid stochastic-deterministic solution of the chemical master equation**

SIAM Multiscale Modelling and Simulation, 10 (2012) pp. 1232-1262

Journal (<http://epubs.siam.org/doi/abs/10.1137/110825716>)

**S. Menz, C. Barenbruch, R. Hengge and W. Huisinga.**

### **Robustness and Sensitivity of the FlgM-FliA regulatory Network controlling Flagellar Gene Expression in Escherichia Coli.**

Preprint (2010)

**S. Menz, R. Matthiesen, C. Dehmel, C. Barenbruch, R. Hengge and W. Huisinga.**

### **Precise Switching of Flagellar Gene Expression in Escherichia Coli by the FlgM-FliA Regulatory Network.**

Submitted (2009).

**M. von Kleist, S. Menz, H. Stocker, K. Arasteh, C. Schütte, W. Huisinga**

### **HIV Quasispecies Dynamics during Pro-Active Treatment Switching: Impact on Multi-Drug Resistance and Resistance Archiving in Latent Reservoirs**

PLoS ONE, Vol. 6 (2011), e18204.

Journal (<http://dx.doi.org/10.1371/journal.pone.0018204>) (open access)

**M. von Kleist, S. Menz and W. Huisinga.**

### **Drug-Class Specific Impact of Antivirals on the Reproductive Capacity of HIV.**

PLoS Comput Biol 5 (2010): e1000720.

Journal (<http://dx.doi.org/10.1371/journal.pcbi.1000720>)(open access).

**S. Menz.**

### **Understanding Differences between Stochastic and Deterministic Models of Chemical Reaction Networks.**

M.Sc. thesis, Freie Universität Berlin, August 2008.



**S. Menz.**

**Vergleich einer deterministischen und stochastischen Modellierung der HOG-Signalweges von *S. cerevisiae* zur Simulation eines hyperosmotischen Schocks.**

B.Sc. thesis, Freie Universität Berlin, September 2004.