



supervision

Ben-Fillippo Krippendorff

Integrating Cell-level Kinetic Modeling into the Optimization of Cancer Therapeutics

Ph.D. Thesis, National University of Ireland, Maynooth, Apr 2010.

Max von Kleist

Combining Pharmacology and Mutational Dynamics to Understand and Combat Drug Resistance in HIV

Ph.D. Thesis, National University of Ireland, Maynooth, Dec 2009.

Andrea Y. Weisse

Global Sensitivity Analysis of Ordinary Differential Equations

PhD thesis, FU Berlin, July 2009.

Stephan Menz

Understanding Differences between Stochastic and Deterministic Models of Chemical Reaction Networks

Master thesis, FU Berlin, August 2008.

Sabine Pilari

Influence of the Dynamics of IKK Activation and Inactivation on the NF!B Signaling Pathway

Master thesis, FU Berlin, March 2008.

Wai-Cheung Ng

Entwicklung eines PBPK-Modells zur Analyse der nichtlinearen Pharmakokinetik von Compound B

Bachelor thesis, FU Berlin, August 2006, jointly with M. Schultze-Mosgau (Schering AG, Berlin)

Sabine Pilari



Entwicklung eines physiologie-basierten Pharmakokinetikmodells zur Untersuchung des Einflusses einer erhöhten Konzentration an Sexualhormonbindendem Globulin auf die Pharmakokinetiken von Compound A

Bachelor thesis, FU Berlin, August 2006, jointly with C. Klein (Schering AG, Berlin).

Max von Kleist

A Generic Physiologically Based Pharmacokinetic Model to Predict Drug Distribution in Plasma, Red Blood Cells, Interstitial and Cellular Space with Application to the Pharmacokinetics of Tolbutamide

M.Sc. Thesis, Freie Universität Berlin, 2005.

Sebastian Ueckert

Entwicklung eines PBPK-Modells zur Beschreibung der Akkumulation von Folaten in Erythrozyten

Bachelor thesis, FU Berlin, August 2006, jointly with S. Reif (Schering AG, Berlin).

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In-silico Modellierung der Cytochrom-P450 Kinetik zur Analyse von CYP-Inhibitionsassays

Bachelor thesis, FU Berlin, September 2005, jointly with A. Reichel (Schering AG, Berlin).

Reiner Matthiesen

Mathematische Modellierung der Regulation der Flagellensynthese bei Escherichia coli

Diploma thesis, FU Berlin, September 2004, jointly with Prof. R. Hengge.

Stephan Menz

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

Bachelor thesis, FU Berlin, September 2004, jointly with Dr. E. Klipp.

Christof Dehmel

Exakte stochastische Simulation der Genexpression bei hyperosmotischen Schockzuständen in Saccharomyces cerevisiae



Bachelor thesis, FU Berlin, September 2004, jointly with Dr. E. Klipp.

Ralf Forster

Ein Algorithmus zur Berechnung invarianter Dichten in metastabilen Systemen

Diploma thesis, FU Berlin, September 2003, jointly with Prof. Ch. Schütte.

Philipp Heidborn

A Reduced Space Hybrid Monte Carlo method in the context of Molecular Dynamics

Diploma thesis, FU Berlin, August 2003, jointly with A. Fischer and Prof. Ch. Schütte

Mario Meier

Ein Vergleich zweier auf der Eigenraumstruktur basierender Cluster-Algorithmen zur Identifikation metastabiler Mengen

Diploma thesis, FU Berlin, März 2003, jointly with A. Fischer and Prof. Ch. Schütte

Jessica Walter

Metastability of highly oscillatory Hamiltonian systems

Diploma thesis, FU Berlin, February 2002, jointly with Prof. Ch. Schütte.

Sönke Lorenz

Asymptotic behavior of perturbed dynamical systems in the context of modeling biomolecules

Diploma thesis, FU Berlin, September 2001, jointly with Prof. Ch. Schütte.