

List of Publications Gilbert Koch

Book Chapters:

- **Koch G**, Schropp J (2014) *Mathematical Concepts in Pharmacokinetics and Pharmacodynamics with Application to Tumor Growth*. Book chapter in *Nonautonomous Dynamical Systems in the Life Sciences*, Lecture Notes in Mathematics, Vol. 2102, Eds. Kloeden PE, Poetsche C.

Peer-reviewed Journals:

- **Koch G**, Schropp J, Jusko WJ (2015) *Assessment of non-linear drug-drug interaction effect terms* (in preparation)
- Miao X, **Koch G**, Straubinger RM, Jusko WJ (2015) *Modeling combination effects of gemcitabine and Et-743 in pancreatic cancer cell lines* (submitted)
- **Koch G**, Schropp J (2015) *Distributed transit compartments for arbitrary lifespan distributions in aging populations* (submitted)
- **Koch G**, Krzyzanski W, Perez-Ruixo JJ, Schropp J (2014) *Modeling of delays in PKPD: classical approaches and a tutorial for delay differential equations*. *J Pharmacokinet Pharmacodyn*; 41(4):291-318
- **Koch G**, Schropp J (2013) *Solution and implementation of distributed lifespan models*. *J Pharmacokinet Pharmacodyn*; 40(6):639-650
- **Koch G**, Schropp J (2012) *General relationship between transit compartments and lifespan models*. *J Pharmacokinet Pharmacodyn*; 39(4):343-355
- **Koch G**, Wagner T, Plater-Zyberk C, Lahu G, Schropp J (2012) *Multi-response model for rheumatoid arthritis based on delay differential equations in collagen-induced arthritic mice treated with an anti-GM-CSF antibody*. *J Pharmacokinet Pharmacodyn*; 39(1): 55-65
- **Koch G**, Walz A, Lahu G, Schropp J (2009) *Modeling of tumor growth and anticancer effects of combination therapy*. *J Pharmacokinet Pharmacodyn*; 36(2): 179-197
- **2014 PAGE Poster: Solving Semi-Delay Differential Equations in NONMEM**

- **2013 AAPS Poster:** *Mechanism-Based Drug Interaction Model of Gemcitabine and Ecteinascidin (Et-743) in Pancreatic Cancer Cells*
- **2013 PAGE Poster:** *Solution and implementation of distributed lifespan model*
- **2012 PAGE Talk:** *Modeling of delayed phenomena in PKPD by delay differential equations of lifespan type*
- **2011 PAGE Poster:** *A multi-response model for rheumatoid arthritis based on delay differential equations in collagen-induced arthritic mice treated with an anti-GM-CSF antibody*