

Stephan Schmidt, B.Pharm., Ph.D., F.C.P

May 5, 2023

Work Address:

6550 Sanger Road, Office 464
Orlando, FL 32827
Tel.: (407) 313 7012
Fax: (407) 313 7030
Email: sschmidt@cop.ufl.edu

Personal Information:

Place of Birth: Sonneberg, Germany
Date of Birth: January 4, 1978
Nationality: German
Marital Status: Married, 2009
Children: 3 (Rosalyn, Hendrik, Johannes)

Present Position:

Certara Professor, Professor, Director Center for Pharmacometrics and
Systems Pharmacology
Department of Pharmaceutics
College of Pharmacy
University of Florida

Previous Positions:

2022 - present	Professor Center for Pharmacometrics & Systems Pharmacology Department of Pharmaceutics College of Pharmacy University of Florida
2017 - 2022	Associate Professor Center for Pharmacometrics & Systems Pharmacology Department of Pharmaceutics College of Pharmacy University of Florida
2017 - 2018	Associate Chair Department of Pharmaceutics - Lake Nona College of Pharmacy University of Florida
2016 - 2019	Associate Director Center for Pharmacometrics & Systems Pharmacology Department of Pharmaceutics College of Pharmacy University of Florida
2012 - 2017	Assistant Professor Center for Pharmacometrics & Systems Pharmacology Department of Pharmaceutics College of Pharmacy University of Florida

Education:

2009 - 2011	Post-doctoral fellowship at the Leiden/Amsterdam Center for Drug Research, Leiden, The Netherlands Supervisor: Professor Meindert Danhof, Pharm.D., Ph.D. and Professor Oscar E. Della Pasqua, Ph.D.
-------------	---

- 2005 - 2008 Ph.D. Pharmaceutics from the University of Florida, Gainesville, FL, USA
Title: "Pharmacokinetics and Pharmacodynamics of Oxazolidinones and Beta-Lactams."
Supervisor: Professor Hartmut Derendorf, Ph.D.
- 2004 - 2005 Pharmaceutical practical training year and received license to practice as a Pharmacist in Germany in February 2005
- 1999 - 2003 B.S. Pharmacy from the Friedrich-Alexander-University, Erlangen, Germany

Awards and Honors:

- 2023 University of Florida Research Foundation Professorship Award, April, 2023
- 2021 Excellence in Academia Award, MIDD+ Scientific Conference, SimulationsPlus, March 3-4, 2021
- 2021 Teacher Service Award, University of Florida, November 12, 2021
- 2018 Doctoral Dissertation Mentoring Award, College of Pharmacy, University of Florida, December 13, 2018
- 2017 Galenus Support, April 20, 2017
- 2017 Fellow of the American College of Clinical Pharmacology, February 15, 2017
- 2016 Tanabe Young Investigator Award, September 27, 2016
- 2016 Galenus Support, April 20, 2016
- 2015 Galenus Support, April 22, 2015
- 2014 International Educator of the Year (Junior Faculty Category), College of Pharmacy, University of Florida, November 19, 2014
- 2014 Galenus Support, April 25, 2014
- 2013 University of Florida Excellence Award for Assistant Professors, May 13, 2013
- 2013 Galenus Support, April 30, 2013
- 2012 University of Florida Clinical and Translational Science Institute Junior Faculty Pilot Program Award: Title: "Personalizing Antiplatelet Therapy: Development of a CYP2C19 Genotype-Directed Dosing Algorithm for Clopidogrel", December 20, 2012
- 2012 Galenus Support, April 30, 2012
- 2011 American College of Clinical Pharmacology (ACCP) Student/Trainee Abstract Award, Poster Title: "Mathematical Model Reduction: An Innovative Tool for Analyzing Complex Dynamic Systems", September 12, 2011
- 2011 Galenus Support, April 25, 2011
- 2010 Paul-Ehrlich Society for Chemotherapy Thesis Award, October 7, 2010
- 2010 Galenus Support, April 20, 2010
- 2008 American Society for Microbiology (ASM) Infectious Disease Fellows Travel Grant, August 18, 2008
- 2008 Annual Research Showcase Poster Competition Winner of the College of Pharmacy at the University of Florida, Poster Title: "Protein Binding – A Source for Many Pitfalls", February 21, 2008.
- 2007 American College of Clinical Pharmacology (ACCP) Student/Trainee

- Abstract Award, Poster Title: “Linezolid against MRSA – A New Modeling Approach”, September 11, 2007.
- 2007 Genentech Podium Award, Presentation Title: “Linezolid against MRSA – A new *in vitro* Model”, September 9, 2007.
- 2007 Annual Research Showcase Poster Competition Winner of the College of Pharmacy at the University of Florida, Poster Title: “Linezolid vs. MRSA – A New PK/PD Model”, February 19, 2007.
- 2007 American Society for Microbiology (ASM) Infectious Disease Fellows Travel Grant, September 17, 2007.
- 2006 American Society for Microbiology (ASM) Infectious Disease Fellows Travel Grant, September 27, 2006.
- 2006 South East Regional Interdisciplinary Symposium (SERIS) Poster Competition Winner, Poster Title: “Experimental Pitfalls in Protein Binding Measurements”, May 21, 2006.
- 2006 European Society of Clinical Microbiology and Infectious Diseases (ECCMID) Travel and Registration Scholarship, April 2, 2006.

Teaching Experience:

- 2016 - present Course coordinator at the University of Florida, Department of Pharmaceutics
- PHA5132 (Principles of Drug Therapy Individualization)
 - PHA6131 (Principles and Application of Physiologically-Based Pharmacokinetic Modeling)
- 2014 - 2015 Course coordinator at the University of Florida, Department of Pharmaceutics
- PHA5127 (Basic principles of dose optimization I)
 - PHA6935 (Pharmacometrics and Systems Pharmacology)
- 2012 - 2014 Course co-coordinator at the University of Florida, Department of Pharmaceutics
- PHA5127 (Basic principles of dose optimization I)
 - PHA6125 (Advanced Pharmacokinetics and Pharmacodynamics)
- 2011 Lecturer at the Dutch Top Institute Pharma’s (TI Pharma) Drug Discovery & Development Cycle (DDC)
- Interfacing discovery and development
 - PK/PD modeling
- 2009 - 2011 Teaching Assistant at Leiden University, Department of Pharmacology
- BFW-2 pharmacology and statistics
 - Systems pharmacology: innovative strategies for disease intervention
- 2005 - 2008 Teaching Assistant at the University of Florida, College of Pharmacy, Department of Pharmaceutics
- PHA5127 & PHA5128
 - Pharmaceutical Skill Laboratory

Professional Affiliations:

- 2015 - present International Pharmaceutical Federation (Federation Internationale Pharmaceutique, FIP)
- 2013 - present International Society of Pharmacometrics (ISoP)
- 2013 - present American Society for Clinical Pharmacology and Therapeutics (ASCPT)
- 2012 - present American Association of Colleges of Pharmacy (AACP)
- 2010 - present Paul-Ehrlich Society for Chemotherapy (PEG)
- 2007 - present American College of Clinical Pharmacology (ACCP)
- 2006 - 2008 American Society of Microbiology (ASM) student member
- 2005 - 2018 American Association of Pharmaceutical Scientists (AAPS)

Additional Professional Activities:

- 2019 - 2020 Chair of the BPS Special Interest Group on Personalized and Precision Medicine (FIP)
- 2018 - 2019 Immediate past chair of the Systems Pharmacology Community for the American Society for Clinical Pharmacology and Therapeutics (ASCPT)
- 2017 - present Scientific Advisor to the Editors of *JPharmSci*
- 2017 - 2018 Chair of the Systems Pharmacology Community for the American Society for Clinical Pharmacology and Therapeutics (ASCPT)
- 2016 - present Section Editor *Eur J Pharm Sci*
- 2016 - present Editorial Board Member *J Clin Pharmacol*
- 2016 - 2019 Editorial Board Member *CPT Pharmacometrics Syst Pharmacol*
- 2015 - 2017 Vice Chair of the Systems Pharmacology Community for the American Society for Clinical Pharmacology and Therapeutics (ASCPT)
- 2015 - 2019 Chair of the BPS Special Interest Group on PK/PD and Systems Pharmacology (FIP)
- 2015 - present American College of Clinical Pharmacology (ACCP) 2016 Program Committee Member
- 2015 20th North American International Society for the Study of Xenobiotics (ISSX) Meeting Co-Chair
- 2014 - 2015 International Society of Pharmacometrics (ISoP) Quantitative Systems Pharmacology (QSP) Special Interest Group (SIG) Steering Committee Member
- 2013 - present Founder and faculty advisor for the American College of Clinical Pharmacology (ACCP) student chapter at the University of Florida
- 2012 - 2018 Founder and faculty advisor for the Personalized Medicine Coalition (PMC) student chapter at the University of Florida

2012 - present Peer reviewer for the Scandinavian Journal of Infectious Diseases

2011 - present Peer reviewer for the British Journal of Pharmacology

2010 - present Peer reviewer for the International Journal of Clinical Pharmacology and Therapeutics

2010 - present Peer reviewer for the British Journal of Clinical Pharmacology

2010 - present Peer reviewer for the European Journal of Pharmaceutical Sciences

2009 - present Peer reviewer for the Journal of Clinical Pharmacology

2008 - 2010 Member of the American Association of Pharmaceutical Scientists
microdialysis focus group steering committee

2007 - 2009 American College of Clinical Pharmacology Student Outreach Committee

Grants and Contracts:

Ongoing Research Support – Federal:

Source: NIH

Title: CES1 Genetic Variation Influences Methylphenidate in ADHD

Time period: 7/1/2018- 6/30/2023

Amount: \$3,844,067

Role: co-PI

Source: NIH

Title: “Optimizing Muscular Dystrophy Clinical Trial Designs”

Time period: 09/2021 – 07/2023

Amount: \$190,625

Role: co-PI

Ongoing Research Support – Foundation:

Source: Bill & Melinda Gates Foundation, INV-010213

Title: “Application of physiologically-based pharmacokinetic models to inform dosing recommendations for hormonal contraceptives co-administered with other medications”

Time period: 10/2020-10/2022

Amount: \$1,094,629

Role: PI

Ongoing Research Support – Industry:

Source: Hoffmann-La Roche Ltd.

Title: Physiologically Based Biopharmaceutics Modeling and Virtual Bioequivalence Assessment During the Development Process

Time Period: 06/01/2022 – 05/31/2025

Amount: \$750,000

Role: co-PI

Source: Takeda

Title: Takeda Research Agreement

Time period: 03/30/21-03/31/23

Amount: \$250,000

Role: PI

Source: Simulations Plus
Title: Using Physiologically-Based Pharmacokinetic (PBPK) Simul
Time period: 04/01/21-09/30/22
Amount: \$100,000
Role: PI

Source: GlaxoSmithKline
Title: Research fellowship program for pharmacokinetics pharmacodynamics
Time period: 09/01/21-08/31/22
Amount: \$82,178
Role: PI

Source: Simulations Plus
Title: Novel physiologically based absorption modeling to predict
Time period: 07/01/21-12/31/22
Amount: \$135,000
Role: co-PI

Source: GlaxoSmithKline
Title: Research fellowship program for pharmacokinetics pharmacodynamics
Time period: 08/01/22-07/31/23
Amount: \$88,400
Role: PI

Ongoing Research Support – Other:
None

Completed Research Support – Federal:

Source: NIAID, 1P01AI123036-01
Title: “Optimizing Combination Therapy to Accelerate Clinical Cure of Tuberculosis”
Time period: 08/2016 – 07/2022
Amount: \$11,987,633
Role: Head of the mathematical modeling core (20%)

Source: FDA, Center for Drug Evaluation Research – Office of Generic Drugs, U01 RFA-FD-14-024
Title: “Pharmacokinetic and pharmacodynamic (PK-PD) studies of cardiovascular drugs”
Time period: 09/2014 – 09/2018
Amount: \$2,209,415
Role: I (10%, 15%, 20%)

Source: FDA, Center for Drug Evaluation Research – Office of Generic Drugs, 5U01FD005210 – 04
Title: “A Model- and Systems-Based Approach to Efficacy and Safety Questions Related to Generic Substitution”
Time period: 09/2014 – 09/2018
Amount: \$1,000,000
Role: PI since December 2018 and co-PI prior to that (20%)

Source: FDA, Office of Women's Health
Title: "Disease Systems Analysis: Towards a Generic Framework for Characterizing Disease Progression and Treatment Effects in Osteoporosis"
Time period: 04/30/2014 – 05/01/2016
Amount: \$180,000
Role: PI

Source: FDA
Title: "Using Drug-Drug Interactions to Identify Pharmacogenomic Opportunities"
Time period: 02/01/2014 – 08/01/2014
Amount: \$36,000
Role: co-PI

Source: FDA
Title: "PBPK training"
Time period: 09/2012 – 08/30/2013
Funding Requested: \$90,000
Role: PI

Complete Research Support –Foundation:

Source: Bill & Melinda Gates Foundation, OPP1185454
Title: "Application of physiologically-based pharmacokinetic models to inform dosing recommendations for hormonal contraceptives co-administered with other medications"
Time period: 11/17-10/20
Amount: \$1,499,992
Role: PI

Source: Thrasher Foundation
Title: "Genotype-tailored treatment of symptomatic acid-reflux in children with uncontrolled asthma"
Time period: 03/01/18-02/28/21
Amount: \$374,897
Role: co-PI

Completed Research Support – Industry:

Source: GlaxoSmithKline
Title: Research fellowship program for pharmacokinetics pharmacodynamics
Time period: 08/01/21-07/31/22
Amount: \$97,021
Role: PI

Source: Millennium Pharmaceuticals, Inc.
Title: Development of a Mechanism-Based Drug Disease Trial Model for Parkinson's disease (PD)
Time period: 11/1/2018-08/31/2021
Amount: \$220,000.00
Role: co-PI

Source: ARS Pharmaceuticals

Title: Development of a Physiologically based Pharmacokinetic Model (PBPK) to Inform the Development of a New Nasal Formulation of Epinephrine

Time period: 06/01/2020-09/30/2021

Amount: \$106,550

Role: co-PI

Source: GlaxoSmithKline

Title: Research fellowship program for pharmacokinetics pharmacodynamics

Time period: 07/01/20-07/30/21

Amount: \$82,535

Role: PI

Source: GlaxoSmithKline

Title: Research fellowship program for pharmacokinetics pharmacodynamics

Time period: 09/01/20-08/30/21

Amount: \$91,582

Role: PI

Source: Tabula Rasa HealthCare

Title: "Pharmacometrics modeling and simulation of the probe drug tramadol administered alone or while subjected to competitive enzyme inhibition"

Time period: 08/05/2019-08/04/2020

Amount: \$142,085

Role: PI

Source: GlaxoSmithKline

Title: Research fellowship program for pharmacokinetics pharmacodynamics

Time period: 07/01/18-06/30/20

Amount: \$159,284

Role: PI

Source: GlaxoSmithKline

Title: Research fellowship program for pharmacokinetics pharmacodynamics

Time period: 07/2018-04/2019

Amount: \$86,819

Role: PI

Source: Eli Lilly

Title: Development and qualification of an expanded Diabetes model

Time period: 7/6/2018-7/5/2020

Amount: \$120,488

Role: PI

Source: Biomedical Advanced Res & Development Author

Title: "Microdialysis study of Lipo680 in the animal model"

Time period: 07/2019-06/2020

Amount: \$80,215

Role: PI

Source: Biomedical Advanced Res & Development Author
Title: "Microdialysis study of Lipo680 in the animal model"
Time period: 07/2019-06/2020
Amount: \$301,213
Role: PI

Source: Hoffmann-La Roche Ltd.
Title: "Improved Pediatric Dose Selection through Physiologically Based Pharmacokinetic Modeling"
Time period: 01/2017-01/2019
Amount: \$278,331
Role: PI

Source: GlaxoSmithKline
Title: Research fellowship program for pharmacokinetics pharmacodynamics
Time period: 07/2016-12/2018
Amount: \$246,217
Role: PI

Source: GlaxoSmithKline
Title: Research fellowship program for pharmacokinetics pharmacodynamics
Time period: 07/01/18-06/30/19
Amount: \$80,215
Role: PI

Source: Translation Research Institute for Metabolism and Diabetes
Title: Translational Research Institute for Metabolism and Diab
Time period: 10/2015-10/2018
Amount: \$32,747
Role: PI

Source: Janssen Research and Development
Title: "In Silico Clinical Trial Qualification of Successful Biomarker Measurements Related to Monoclonal Antibody Drug Development"
Time period: 04/30/2015 – 02/28/2017
Amount: \$197,428
Role: PI

Source: AstraZeneca
Title: "Systems Pharmacology Based Modeling as a Platform"
Time period: 04/2015-10/2017
Amount: \$247,523
Role: PI

Source: Pinnacle Laboratory Services & Florida High Tech Corridor (FHTC)
Title: "Pharmacogenomics of Oxycodone in Chronic Pain Management"
Time period: 04/01/2015 – 03/31/2017
Amount: \$150,000
Role: co-PI

Source: Eli Lilly and Company
Title: "In Silico Modeling of Biomarkers and Surrogate Endpoints of Diabetes III"
Time period: 04/16/2014 – 12/31/2016
Amount: \$98,376
Role: PI (10%)

Source: GlaxoSmithKline LLC
Title: "Research Fellowship Program for Pharmacokinetics Pharmacodynamics"
Time Period: 11/01/2015 – 10/31/2016
Amount: \$ 151,663
Role: PI

Source: Bayer Business and Technology Services LLC
Title: "Establishment of a Pediatric PBPK Model for Large Molecules in PK-Sim®"
Time Period: 06/15/2015 – 08/30/2016
Amount: \$48,000
Role: PI

Source: Pfizer II
Time period: 12/2013 – 12/2015
Post-doctoral fellow support
Amount: \$120,000
Role: co-PI

Source: Daiichi Sankyo
Post-doctoral fellow support
Time period: 04/09/2013 – 04/09/2016
Amount: \$150,000
Role: co-PI

Source: Eli Lilly and Company
Title: "In Silico Modeling of Biomarkers and Surrogate Endpoints of Diabetes III"
Time period: 04/16/2014 – 04/16/2015
Amount: \$87,000
Role: PI (10%)

Source: Sprout Pharmaceuticals, Inc.
Title: "Determination of the Relationship between Flibanserin Exposure and Adverse Drug Events"
Time Period: 03/16/2015 – 06/30/2015
Amount: \$25,000
Role: PI

Source: Aegerion
Title: "Population Pharmacokinetic Assessment of Lomitapide exposure in Subjects Following Administration of Development and Commercial Lomitapide Capsules (BMS-CV145-003, AEGR-733-005, 733-015, 733-017, 733-018, 733-023)"
Time period: 01/01/2014 – 12/31/2014
Amount: \$23,116.50 (5%)
Role: PI

Source: Simulations Plus, Inc.

Title: "Parameterization and qualification of physiologically based pharmacokinetic models in children for implementation in GastroPlus"

Time period: 09/01/2013 – 08/31/2014

Amount: \$58,750

Role: PI (5%)

Source: Amgen

Title: "Modeling of Antibody-Based Therapeutic Proteins in Pediatrics"

Project Date: 6/22/2012 – 6/2014

Amount: \$120,000

Role: PI

Source: Eli Lilly and Company

Title: "In Silico Modeling of Biomarkers and Surrogate Endpoints of Diabetes"

Time period: 04/16/2013 – 04/15/2014

Amount: \$40,000

Role: PI

Source: Bayer Business and Technology Services

Title: "Pharmacokinetic modeling of oral drug absorption in preterm neonates"

Time period: 08/01/2013 – 12/31/2013

Amount: \$26,000

Role: PI

Source: Aegerion

Title: "Physiologically-Based Pharmacokinetic (PBPK) Modeling and Simulation of Lomitapide Exposure with Co-Administration of CYP3A4 Inhibitors"

Time period: 09/17/2012 – 11/30/2012

Amount: \$62,500

Role: PI

Source: Aegerion

Title: "Lomitapide Pediatric Trial Dose Selections Using Two Approaches: Allometric Scaling and Physiologically-Based Pharmacokinetic (PBPK) Modeling"

Time period: 12/01/2012 – 06/30/2013

Amount: \$15,000

Role: PI

Source: Aegerion

Title: "Evaluation of race effects on the systemic exposure of lomitapide"

Time period: 08/14/2013 – 12/31/2013

Amount: \$18,750

Role: PI

Agency: Pfizer I

Post-doctoral fellow support

Project Date: 12/2011 – 12/2013

Amount: \$120,000

Role: PI

Completed Research Support – Other:

Source: University of Florida Center for Research to Investigate Substance use and Pain (UF-CRISP)

Title: “Etiology and Mechanisms of Opioid Overdoses – A Pilot Study of Interactions of Pain and Substance Use in a New Era of Reduced Access to Prescription Opioids and Increasing Overdose Rates”

Time period: 06/2019 – 05/2020

Amount: \$72,558

Role: co-I

Source: CTSI Junior Faculty Pilot Program Award

Title: “Personalizing antiplatelet therapy: development of a CYP2C19 genotype-directed dosing algorithm for clopidogrel”

Time period: 01/01/2013 – 12/31/2013

Amount: \$20,000

Role: PI

Source: Rio Grande do Sul State Support to Research Agency

Title: “PBPK modeling as a translational tool to investigate oral antidiabetics”

Time period: 07/01/2014 – 12/31/2015

Amount: R\$ 90,000 (USD \$40,266)

Role: co-PI

Professional Courses and Trainings:

- 2017 *American Association of Colleges of Pharmacy (AACP) Catalyst: Accelerating Research Leadership Program, USA*
- 2017 *Department Chairs Workshop, Howey-in-the-Hills, USA, June 4-7, 2017*
- 2016 *Managing Emotions under Pressure, Orlando, USA, October 18, 2016*
- 2016 *Dealing with Difficult People, Orlando, USA, March 31, 2016*
- 2015 *Implementing Transformational Philanthropy for Academic Leaders, Gainesville, USA, August 20, 2015*
- 2014 *Population analysis and modeling with Monolix and Mlxtran, Alicante, Spain, June 9-10, 2014*
- 2014 *Training Grant Workshop, Gainesville, FL, USA, March 31, 2014*
- 2014 *Introductory GastroPlusTM Simulation and Modeling Workshop, Princeton, NJ, USA, March 10-12, 2014*
- 2014 *Hands-on SimBiology Workshop for Pharmacokinetic and Mechanistic Modeling, Lake Nona (Orlando), USA, February 25-26, 2014*
- 2014 *MATLAB Technical Seminars at University of Florida, Lake Nona (Orlando), USA, February 24, 2014*
- 2013 *Mechanistic Modeling of Biologics, Fort Lauderdale, USA, May 12, 2013*
- 2013 *Pharmacokinetics & Pharmacodynamics of Protein Therapeutics – Concepts and Hands-on Modeling and Simulation, Memphis, USA, April 15-19, 2013*
- 2013 *Grantsmanship Writing Workshop, Gainesville, USA, February 4, 2013*
- 2012 *Teaching Excellence Workshop, Gainesville, USA, April 6, 2012*
- 2010 *Quality by Design, TI PHARMA, Leiden, The Netherlands, November 10, 2010*
- 2010 *PKPD modeling of Continuous and Categorical data in NONMEM 7, Uppsala University, Berlin, Germany, June 6-8, 2010*

- 2010 *Pharmacokinetic and Pharmacodynamic Modeling and Simulation in R*, Leiden/Amsterdam Center for Drug Research, Leiden, The Netherlands, March 18, 2010
- 2010 *Time-to-Event course*, Leiden/Amsterdam Center for Drug Research, Leiden, The Netherlands, February 3, 2010
- 2009 *Intellectual Property*, TI PHARMA, Utrecht, The Netherlands, November 25, 2009
- 2009 *New and Advanced Features of NONMEM 7 workshop*, GSK, Greenford, UK, October 22-23, 2009
- 2009 *Drug Discovery Simulation*, TI PHARMA, Sint-Michielsgestel, The Netherlands, September 14-18, 2009
- 2009 *Binary and categorical data modeling, analysis and simulation using NONMEM*, TI PHARMA, Leiden, The Netherlands, June 3-4, 2009
- 2009 *NONMEM workshop*, EMF-consulting, Aix en Provence, France, May 4-8, 2009
- 2009 *Introduction to Bayesian analysis using WinBUGS*, MRC Biostatistics Unit, Cambridge, UK, February 25-26, 2009

List of Publications:

1. Subhani S, Lukacova V, Kim C, Rodriguez-Vera L, Muniz P, Rodriguez M, Cristofolletti R, Van Os S, Suarez E, **Schmidt S**, Vozmediano V. Leveraging physiologically based modeling to provide insight on the absorption of paliperidone extended release formulation under fed and fasted conditions. *MDPI*. 2023. 15(2): 629.
2. Pressly MA, Peletier LA, Zheng S, Sharma VD, Lien YT, Wang W, Zhou H, **Schmidt S**. The quest for balance between capturing data and model complexity: a quantitative clinical pharmacology approach applied to monoclonal antibodies. *CPT: Pharmacometrics & Systems Pharmacology*. 2023.
3. Sarayani A, Winterstein A, Cristofolletti R, Vozmediano V, **Schmidt S**, Brown J. Real-World Effect of a Potential Drug-Drug Interaction Between Topiramate and Oral Contraceptives on Unintended Pregnancy Outcomes. *Elsevier*. 2023.
4. Abdelmageed M, de Moraes N, **Schmidt S**, Vozmediano V, Rochani A, Kraft W, Boelig RC. Application of population modeling to characterize the effect of pregnancy on aspirin pharmacokinetics. *Elsevier*. 2023. 228(1): S180.
5. de-Lima Moreira F, de-Barros Tarozzo MM, Balthazar Nardotto GH, Saraiva Gonçalves JC, **Schmidt S**, Valadares de-Moraes N. Assessing the contribution of UGT isoforms on raltegravir drug disposition through PBPK modeling. *European Journal of Pharmaceutical Sciences*. 2023.
6. Caballero U, Eraso E, Quindos G, Vozmediano V, **Schmidt S**, Jauregizar N. PK/PD modelling and simulation of the in vitro activity of the combinations of isavuconazole with echinocandins against *Candida auris*. *CPT: Pharmacometrics & Systems Pharmacology*. 2023.
7. Michelet R, Aullin L, Borghart J, Dalla Costa T, Denti P, Ibara M, Ma G, Meibohm B, Oillai G, Henning S, Kloft C, **Schmidt S**. Barriers to global pharmacometrics; educational challenges and opportunities across the globe. *CPT: Pharmacometrics & Systems Pharmacology*. 2023.
8. Guinn D, Pressly MA, Liu Z, Ceresa C, Samuels S, Wang Y, Madabushi R 1, **Schmidt S**, Fletcher EP. Exploring the knowledge gaps in infant drug exposure from human milk: A clinical pharmacology perspective. *Journal of Clinical Pharmacology*. 2022. 63(3): 273-276.

9. Vouri CM, Morris EJ, Jiang X, Hofer A, **Schmidt S**, Pepine C, Winterstein AG, Smith SM. Evaluation of a Beta-Blocker–Edema–Loop Diuretic Prescribing Cascade: A Prescription Sequence Symmetry Analysis. *American Journal of Hypertension*. 2022. 35(7):601-609.
10. Yamada W, Kim S, Almoslem M, Kim S, Myrick J, Nole J, Duncanson B, Louie A, Peloquin CA, **Schmidt S**, Drusano GL, Neely M. Combination therapy to kill *Mycobacterium tuberculosis* in its non-replicating persister phenotype. *Antimicrobial Agents and Chemotherapy*. 2022. 66(10): e00695-22.
11. Morales JF, Muse R, Podichetty J, Burton J, David S, Martin F, Atkinson MA, Haller MJ, Campbell-Thompson M, Romero K, O'doherty I, **Schmidt S**, Kim S. A Model-Based Clinical Trial Simulation Tool to Optimize Clinical Trial Designs for Type 1 Diabetes Prevention Studies. *Diabetes*. 2022.71(Supplement_1):63-OR
12. Cicali B, **Schmidt S**, Zeitlinger M, Brown JD. Macrolide Treatment Failure due to Drug–Drug Interactions: Real-World Evidence to Evaluate a Pharmacological Hypothesis. *Pharmaceutics*. 2022. 14(4):704.
13. Vouri SM, Morris EJ, Jiang X, Hofer A, **Schmidt S**, Pepine C, Winterstein AG, Smith SM. Evaluation of a Beta-Blocker–Edema–Loop Diuretic Prescribing Cascade: A Prescription Sequence Symmetry Analysis. *American Journal of Hypertension*. 2022. 35(7):601-609.
14. Subhani S, Kim C, Muniz P, Rodriguez M, Van Os S, Suarez E, Cristofolletti R, **Schmidt S**, Vozmediano V. Application of Physiologically Based Absorption and Pharmacokinetic Modeling in the development process of oral modified release generic products. *European Journal of Pharmaceutics and Biopharmaceutics*. 2022. 176:87-94.
15. Cicali B, Da Silva L, Sarayani A, Lingineni K, Pressly M, Kim S, Wendl T, Hoechel J, Vozmediano V, Winterstein AG, Brown JD, **Schmidt S**, Cristofolletti R. Development of a Translational Exposure-Bracketing Approach to Streamline the Development of Hormonal Contraceptive Drug Products. *Clinical Pharmacology & Therapeutics*. 2022. doi.org/10.1002/cpt.2690.
16. Soldatos TG, Kim S, **Schmidt S**, Lesko LJ, Jackson DB. Advancing drug safety science by integrating molecular knowledge with post-marketing adverse event reports. *CPT: Pharmacometrics & Systems Pharmacology*. 2022. 11(5):540-555.
17. Lingineni K, Chaturvedula A, Cicali B, Cristofolletti R, Wendl T, Hoechel J, Brown JD, Vozmediano V, **Schmidt S**. Determining the Exposure Threshold for Levonorgestrel Efficacy Using an Integrated Model Based Meta-Analysis (MBMA) Approach. *Clin Pharmacol Ther*. 2022. 111(2):509-518.
18. Kim S, Louie A, Drusano GL, Almoslem M, Kim S, Myrick J, Nole J, Duncanson B, Peloquin CA, Scanga CA, Yamada W, Neely M, **Schmidt S**. Evaluating the effect of clofazimine against *Mycobacterium tuberculosis* when given alone or in combination with pretomanid, bedaquiline or linezolid. *Int J Antimicrob Agents*. 2022. 59(2):106509.
19. Lingineni K, Aggarwal V, Morales JF, Conrado DJ, Corey D, Vong C, Burton J, Larkindale J, Romero K, **Schmidt S**, Kim S. Development of a Model-based Clinical Trial Simulation Platform to Optimize the Design of Clinical Trials for Duchenne Muscular Dystrophy. *Pharmacometrics & Systems Pharmacology*. 2022. 11(3):318-332.
20. Mosley SA, Kim S, El Roubay N, Lingineni K, Vozmediano Esteban V, Gong Y, Chen Y, Estores D, Feng K, Kim H, Kinjo M, Langae T, Li Z, Schmidt SOF, Johnson JA, Frye RF, Fang L, Zhao L, Binkley PF, **Schmidt S**, Cavallari LH. A Randomized, Cross-over Trial of Metoprolol Succinate Formulations to Evaluate PK and PD Endpoints for Therapeutic Equivalence. *Clinical and Translational Science*. 2022.

- 15(7):1764-1775.
21. Brown JD, Hartman D, Hay JL, Hersherberger K, Hershenson S, McNair D, Matthews B, Milad M, Naik R, **Schmidt S**, Seo S, Zhao P. Application of Exposure-Bracketing to Streamline the Development of Contraceptive Products. *ContraceptionX*. 2022. 4: 100072.
 22. Long T, Cristofolletti R, Cicali B, Michaud V, Dow P, Turgeon J, **Schmidt S**. Physiologically Based Pharmacokinetic Modeling to Assess the Impact of CYP2D6-Mediated Drug-Drug Interactions on Tramadol and O-Desmethyltramadol Exposures via Allosteric and Competitive Inhibition. *The Journal of Clinical Pharmacology*. 2022. 62(1):76-86.
 23. Caballero U, Kim S, Eraso E, Quindós G, Vozmediano V, **Schmidt S**, Jauregizar N. In Vitro Synergistic Interactions of Isavuconazole and Echinocandins against *Candida auris*. *Antibiotics (Basel)*. 2021. 10(4):355.
 24. Farhan N, Cristofolletti R, Basu S, Kim S, Lingineni K, Jiang S, Brown J, Fang L, Lesko LJ, **Schmidt S**. Physiologically Based Pharmacokinetics Modeling to Investigate Formulation Factors Influencing the Generic Substitution of Dabigatran Etxilate. *CPT: Pharmacometrics & Systems Pharmacology*. 2021.
 25. Sunaga T, Cicali B, **Schmidt S**, Brown J. Comparison of contraceptive failures associated with CYP3A4-inducing drug-drug interactions by route of hormonal contraceptive in an adverse event reporting system. *Contraception*. 2021.
 26. Drusano G, Rogers S, Brown D, Peloquin C, Neely M, Yamada W, Kim S, Almoslem M, **Schmidt S**, Louie A. Dose-fractionation of moxifloxacin for the treatment of tuberculosis: impact of dosing interval and elimination half-life on microbial kill and resistance suppression. *Antimicrobial Agents and Chemotherapy*. 2021.
 27. Takahashi RH, Forrest WF, Smith AD, Badée J, Qiu N, **Schmidt S**, Collier AC, Parrott N, and Fowler S. Characterization of Hepatic UDP-Glucuronosyl Transferase Enzyme Abundance - Activity Correlations and Population Variability using a Proteomics Approach and Comparison with Cytochrome P450 Enzymes. *Drug metabolism and disposition*. 2021. 49(6).
 28. Tatipalli M, Siripuram VK, Long T, Shuster D, Bernstein G, Martineau P, Cook KA, Cristofolletti R, **Schmidt S**, and Vozmediano V. Model-Informed Optimization of a Pediatric Clinical Pharmacokinetic Trial of a New Spironolactone Liquid Formulation. *MDPI*. 2021. 13(6): 849.
 29. Kim C, Re VL, Rodriguez M, Lukas JC, Leal N, Campo C, García-Bea A, Suarez E, **Schmidt S**, and Vozmediano V. Application of a dual mechanistic approach to support bilastine dose selection for older adults. *CPT Pharmacometrics Syst Pharmacol*. 2021. 10(9):1006-1017. 10.1002/psp4.12671
 30. Johnson JA, and **Schmidt S**. Tribute to Professor Hartmut Derendorf (1953-2020): Driving force in clinical pharmacology and mentor extraordinaire. *Clinical Pharmacology & Therapeutics*. 2021.
 31. Schmidt S. Tribute to Professor Hartmut Derendorf - 1953 to 2020: The gentle giant of quantitative clinical pharmacology. *Journal of Pharmacokinetics and Pharmacodynamics*. 2021.
 32. D van Groen B, Nicolai J, van Peer E, Kuik A, Smits A, **Schmidt S**, N de Wildt S, Allegaert K, Cruchten SV, De Schaepdrijver L, Annaert P, and Badée J. Ontogeny of hepatic transporters and drug metabolizing enzymes in humans and in non-clinical species. *Pharmacological Reviews*. 2021. 48; 1-2.
 33. Kim S, Yamada WM, Duncanson B, Nole J, Rogers S, Parker S, Bacci M, Mtchedlidze N, Peloquin CA, Louie A, **Schmidt S**, Drusano GL, Neely MN. Building Optimal Three-Drug Combination Chemotherapy Regimens To Eradicate *Mycobacterium tuberculosis* in Its Slow-Growth Acid Phase. *Antimicrob Agents Chemother*. 2021 Sep

- 17;65(10):e0069321. doi: 10.1128/AAC.00693-21. Epub 2021 Aug 2. PMID: 34339275
34. **Schmidt S**, Vozmediano V, Cristofolletti R, Kim S, Lalonde R, Brown JD, Jin J, Krishnaswami S, Musante CJ, Tannenbaum S, Wang Y, Weber B. How to train the next generation of pharmacometricians? – A 2025 Perspective. Manuscript under submission with *CPT: Pharmacometrics & Systems Pharmacology*. 2021.
 35. Sarayani A, Winterstein AG, Cristofolletti R, Vozmediano Esteban V, **Schmidt S**, Brown JD. Concomitant Topiramate and Oral Contraceptive Use and Unintended Pregnancy: Real-World Evaluation of A Potential Drug-Drug Interaction. Manuscript under submission with *JAMA Internal Medicine*. 2021.
 36. Caballero U, Eraso E, Pemán J, Quindós G, Vozmediano V, **Schmidt S**, Jauregizar N. In vitro pharmacokinetic/pharmacodynamic modelling and simulation of amphotericin B against *Candida auris*. *Pharmaceutics*. 2021. 13(11):1767.
 37. Soldatos TG, Kim, **Schmidt S**, Lesko LJ, Jackson DB. Perspectives of Molecular Population Data Expansion Towards Augmented Drug Safety. Manuscript under submission with *CPT: Pharmacometrics & Systems Pharmacology*. 2021.
 38. Lee J, Gong Y, Bhoopathy S, DiLiberti C, Hooker A, Rostami-Hodjegan A, **Schmidt S**, Suarez-Sharp S, Lukacova V, Fang L, Zhao L. Public Workshop Summary Report on FY2021 Generic Drug Regulatory Science Initiatives: Data analysis and model-based bioequivalence. *Clin Pharmacol Ther*. 2021. 110(5):1190-1195.
 39. Basu S, Lien YT, Vozmediano V, Schlender J, Eissing T, **Schmidt S**, Niederalt C. Physiologically-Based Pharmacokinetic (PBPK) Modeling of Monoclonal Antibodies in Pediatric Populations Using PK-Sim. *Frontiers in Pharmacology, section Obstetric and Pediatric Pharmacology*. 2020.
 40. Drusano G, Kim S, Almoslem M, **Schmidt S**, D'Argenio D, Myrick J, Duncanson B, Nole J, Brown D, Peloquin C, Neely M, Yamada W, Louie A. The Funnel: A screening technique for identifying optimal two-drug combination chemotherapy regimens. *Antimicrobial Agents & Chemotherapy*. 2020.
 41. Cicali B, Lingineni K, Cristofolletti R, Wendl T, Hoechel J, Wiesinger H, Chaturvedula A, Vozmediano V, **Schmidt S**. Quantitative assessment of levonorgestrel binding partner interplay and drug-drug interactions using physiologically based pharmacokinetic modeling. *CPT: Pharmacometrics & Systems Pharmacology*. 2020. 10(1): 45-58. <https://pubmed.ncbi.nlm.nih.gov/33217171/> **1 citation according to google scholar. May 2021.
 42. Thomas C, Mosley S, Kim S, Lingineni K, Roubey NE, Langae T, Gong Y, Wang D, Schmidt S, Binkley P, Estores D, Feng K, Kim H, Kinjo M, Li Z, Fang L, Chapman A, Cooper-Dehoff R, Gums J, Hamadeh I, Zhao L, **Schmidt S**, Frye R, Johnson J, Cavallari L. Examination of Metoprolol Pharmacokinetics and Pharmacodynamics across CYP2D6 Genotype-derived Activity Scores. *CPT: Pharmacometrics & Systems Pharmacology*. 2020. <http://dx.doi.org/10.1002/psp4.12563>
 43. Lingineni K, Farhan N, Kim S, Gordon LA, Kumar P, Penzak S, Hadigan C, George JM, Brown JD, **Schmidt S**. Quantitative Benefit-Risk Assessment of P-gp Mediated Drug-Drug Interactions (DDIs) of Dabigatran Co-Administered with Pharmacokinetic Enhancers in Patients with Renal Impairment. *Clin Pharmacol Ther*. 2020.
 44. Drusano G, Duncanson B, Scanga C, Kim S, **Schmidt S**, Neely M, Yamada W, Vicchiarelli M, Peloquin C, Louie A. Developing new drugs for the therapy of *Mycobacterium tuberculosis*: What information do we get from pre-clinical animal models? *Antimicrobial Agents and Chemotherapy*. 2020.
 45. Lien YT, Madras K, Samant S, Kim M, Li F, Wang Y, **Schmidt S**, Li L. Establishment of a Disease-Drug-Trial Model for Postmenopausal Osteoporosis: A Zoledronic Acid Case Study. *Journal of Clinical Pharmacology*. 2020.

46. Drusano GL, Neely M, Kim S, Yamada W, **Schmidt S**, Duncanson B, Nole J, Mchedlidze N, Peloquin C, Louie A. Building optimal 3-drug combination chemotherapy regimens. *Antimicrobial Agents and Chemotherapy*. 2020.
47. Farhan N, Gebert I, Xing Y, Wieser K, Lingineni K, Ma X, Chien JY, Garhyan P, **Schmidt S**. Development and verification of a body weight-directed disease trial model for glucose homeostasis. *Journal of Clinical Pharmacology*. 2020.
48. Sarayani A, Brown JD, Goodin AJ, Squires P, Pham P, Cicali B, Henriksen C, **Schmidt S**, Winterstein AG. A pharmacoepidemiologic approach to evaluate real-world effectiveness of hormonal contraceptives – A test case for the impact of a known drug-drug interaction. *Epidemiology*. 2020. doi: 10.1097/EDE.000000000000011.
49. Kim S, Scanga CA, de Miranda Silva C, Zimmerman M, Causgrove C, Stein B, Dartois V, Peloquin CA, Graham E, Louie A, Flynn J, **Schmidt S**, Drusano G. Pharmacokinetics of tedizolid, sutezolid, and sutezolid-M1 in non-human primates. *European Journal of Pharmaceutical Sciences*. 2020.
50. Srinivasan M, White A, Chaturvedula A, Vozmediano EV, **Schmidt S**, Plouffe L, Wingate LT. Incorporating Pharmacometrics into Pharmacoeconomic Models: Applications from Drug Development. *PharmacoEconomics*. 2020.
51. Zhang L, Yan X, Fox KAA, Willmann S, Nandy P, Berkowitz SD, Hermanowski-Vosatka A, Weitz JI, Solms A, **Schmidt S**, Patel M, Peters G. Associations between model-predicted rivaroxaban exposure and patient characteristics and efficacy and safety outcomes in patients with non-valvular atrial fibrillation. *Journal of Thrombosis and Thrombolysis*. 2020.
52. Lam E, Lien YTK, Kraft WK, Piraino B, Vozmediano V, **Schmidt S**, Zhang J. Vancomycin in peritoneal dialysis: Clinical pharmacology considerations in therapy. *Peritoneal Dialysis International : Journal of the International Society for Peritoneal Dialysis*. 2020.
53. Solms A, Willmann S, Reinecke I, Spiro TE, Peters G, Weitz JI, Mueck W, Garmann D, **Schmidt S**, Zhang L, Fox KAA, Berkowitz SD. Associations between model-predicted rivaroxaban exposure and patient characteristics and efficacy and safety outcomes in the prevention of venous thromboembolism. *The Journal of Thrombosis and Thrombolysis*. 2020.
54. Solms A, Willmann S, Reinecke I, Spiro TE, Peters G, Weitz JI, Mueck W, Garmann D, **Schmidt S**, Zhang L, Fox KAA, Berkowitz SD. Associations between model-predicted rivaroxaban exposure and patient characteristics and efficacy and safety outcomes in the treatment of venous thromboembolism. *The Journal of Thrombosis and Thrombolysis*. 2020.
55. Young G, Lensing AWA, Monagle P, Male C, Thelen K, Willmann S, Palumbo JS, Kumar R, Nurmeev I, Hege K, Bonnet D, Connor P, Hooimeijer HL, Torres M, Chan AKC, Kenet G, Holzhauer S, Santamaría A, Amedro P, Beyer-Westendorf J, Martinelli I, Massicotte MP, Smith WT, Berkowitz SD, **Schmidt S**, Price V, Prins MH, Kubitz D. Rivaroxaban for treatment of pediatric venous thromboembolism. An Einstein-Jr Phase 3 dose-exposure-response evaluation. *Journal of Thrombosis and Haemostasis*. 2020.
56. Pham P, **Schmidt S**, Lesko L, Lip GYH, Brown JD. Association of Oral Anticoagulants and Verapamil or Diltiazem With Adverse Bleeding Events in Patients With Nonvalvular Atrial Fibrillation and Normal Renal Function. *JAMA Network Open*. 2020. **3**(4): e203593.
57. Brouwer K, **Schmidt S**, Floren L, Johnson J. Clinical Pharmacology Education – The Decade Ahead. *Clin Pharmacol Ther*. 2020. **107**(1): 37-39.
58. Liu Y, Badee J, Takahashi RH, **Schmidt S**, Parrott N, Fowler S, Mackenzie PI, Coughtrie MWH, Collier AC. Co-expression of human hepatic uridine diphosphate

- glucuronosyltransferase (UGT) proteins: Implications for ontogenetic mechanisms and isoform co-regulation. *Journal of Clinical Pharmacology*. 2020. 60(6): 722-733.
59. Talevi A, Morales J, Hather G, Podichetty J, Kim S, Bloomingdale P, Kim S, Burton J, Brown JD, Winterstein A, White J, **Schmidt S**, Conrado D. Machine Learning in Drug Discovery and Development Part 1 – A Primer. *CPT: Pharmacometrics Syst Pharmacol*. 2020. **9(3)**: 129-142.
 60. Brown JD, Cicali B, Pham P, **Schmidt S**, Lip GYH. Breaking the rules for studies using real-world observational data: the case of direct-acting anticoagulants and antiepileptic drugs. *Eur Heart J Cardiovasc Pharmacother*. 2020. **6(3)**: 155-156.
 61. Cristofolletti R, Hens B, Patel N, Vozmediano V, **Schmidt S**, Dressman J. Integrating drug- and formulation-related properties with gastrointestinal tract variability using a product-specific particle size approach: case example ibuprofen. *J Pharm Sci*. 2019. **108(12)**: 3842-3847.
 62. Badee J, Qiu N, Collier AC, Takahashi RH, Forrest WF, Parrott N, **Schmidt S**, Fowler S. Characterization of the ontogeny of hepatic UDP-glucuronosyltransferase enzymes based on glucuronidation activity measured in human liver microsomes. *J Clin Pharmacol*. 2019. 59 Suppl 1:S42-S55.
 63. Zhang L, Yan X, Nandy P, Willmann S, Fox KAA, Berkowitz SD, Sharma A, Hermanoeski-Vosatka A, **Schmidt S**, Weitz JI, Garmann D, Peters G. Influence of model-predicted rivaroxaban exposure and patient characteristics on efficacy and safety outcomes in patients with acute coronary syndrome. *Ther Adv Cardiovasc Dis*. 2019. **13**:1753944719863641
 64. Conrado DJ, Larkindale J, Berg A, Hill M, Burton J, Abrams KR, Abresch RT, Bronson A, Chapman D, Crowther M, Duong T, Gordish-Dressman H, Harnisch L, Henricson E, Kim S, McDonald CM, **Schmidt S**, Vong C, Wang X, Wong BL, Yong F, Romero K, Duchenne Muscular Dystrophy Regulatory Science Consortium(D-RSC), Towards Regulatory Endorsement of Drug Development Tools to Promote the Application of Model-Informed Drug Development in Duchenne Muscular Dystrophy. *J Pharmacokinet Pharmacodyn*. 2019. **46(5)**: 441-455.
 65. Vozmediano V, Müller M, **Schmidt S**. Hartmut Derendorf's work on tissue distribution. *Eur J Pharm Sci*. 2019. **136**:104977.
 66. Tang M, Blake KV, Lima JJ, Mougey EB, Franciosi J, **Schmidt S**, Hossain MJ, Cobbaert M, Fischer BM, Lang JE. Genotype-tailored treatment of mild symptomatic acid reflux in children with uncontrolled asthma. *Contemp Clin Trials*. 2019. **78**:27-33.
 67. Lippert J, Burghaus R, Edginton A, Frechen S, Karlson M, Kovar A, Lehr T, Milligan P, Nock V, Ramusovic S, Riggs M, Schaller S, Schlender J, **Schmidt S**, Sevestre M, Sjörgren E, Solodenko J, Staab A, Teutonico D. Open Systems Pharmacology Community-An Open Access, Open Source, Open Science Approach to Modeling and Simulation in Pharmaceutical Sciences. *CPT:Pharmacometrics Syst Pharmacol*. 2019. **8(12)**:878-882.
 68. Jiang S, Vozmediano V, Abdel-Rahman SM, Schmidt S, James LP. Acetaminophen Protein Adducts in Hospitalized Children Receiving Multiple Doses of Acetaminophen. *J Clin Pharmacol*. 2019. **59(10)**:1291-1299
 69. Jiang S, Madrasi K, Samant S, Lagishetty C, Vozmediano V, Abdel-Rahman SM, James LP, **Schmidt S**. Population Pharmacokinetic Modeling of Acetaminophen Protein Adducts in Adults and Children. *J Clin Pharmacol*. 2019 [Epub ahead of print]
 70. Lesko LJ, Fang L, **Schmidt S**, Trame MN. Introduction: An Integrated Bioinformatics and Quantitative Modeling Approach to Investigate Potential Claims of Oral Generic Drug Product Bioequivalence. *J Clin Pharmacol*. 2019. **59(9)**:1245-1248
 71. Basu S, Yang H, Fang L, Gonzalez-Sales M, Zhao L, Trame MN, Lesko LJ, **Schmidt S**. Physiologically based pharmacokinetic modeling to evaluate formulation factors

- influencing bioequivalence of metoprolol extended-release products. *J Clin Pharmacol*. 2019. **59(9)**:1252-1263.
72. Kim S, Sharma VD, Lingineni K, Farhan N, Fang L, Zhao L, Brown JD, Cristofolletti R, Valvanera V, Ait-Oudhia S, Lesko LJ, Trame MN, **Schmidt S**. Evaluating the Clinical Impact of Formulation Variability: A Metoprolol Extended-Release Case Study. *J Clin Pharmacol*. 2019. **59(9)**: 1266-1274.
 73. Brown JD, Henriksen C, Vozmediano V, **Schmidt S**. Real-World Data Approaches for Early Detection of Potential Safety and Effectiveness Signals for Generic Substitution: A Metoprolol Extended Release Case Study. *J Clin Pharmacol*. 2019. **59(9)**:1275-1284.
 74. Kim H, Fang L, Yu J, Meng Z, Trame MN, Xie Y, **Schmidt S**, Lesko LJ, Zhao L. Is Bioequivalence Established Based on the Reference-Scaled Average Bioequivalence Approach Relevant to Chronic Administration of Phenytoin?: Perspectives based on Population Pharmacokinetic Modeling and Simulations. *J Clin Pharmacol*. 2019. **59(8)**:1061-1069.
 75. Alghamdi W, Alsultan A, Al-Shaer M, An G, Ahmed S, Alkabab Y, Banu S, Barbakadze K, Houpt E, Kipiani M, Mikiashvili L, **Schmidt S**, Heysell S, Kempker R, Cegielski JP, Peloquin C. Cycloserine Population Pharmacokinetics and Pharmacodynamics in Patients with Tuberculosis. *Antimicrob Agents Chemother*. 2019. **63(5)**: 00055-19.
 76. **Schmidt S**, Kim S, Vozmediano V, Cristofolletti R, Winterstein AG, Brown JD. Pharmacometrics, PBPK, QSP - What's Next? - Joining Mechanistic and Epidemiological Approaches. *CPT: Pharmacometrics Syst Pharmacol*. 2019. **8(6)**:352-355.
 77. Bernstein G, Palatka J, **Schmidt S**. 2019. Biomarkers for Personalized Medicine in Oncology: A Work in Progress. *AAPS Newsmagazine*.
 78. Kirouac D, Cicali B, **Schmidt S**. Reproducibility of Quantitative Systems Pharmacology (QSP) Models: Current Challenges and Future Opportunities. *CPT: Pharmacometrics & Systems Pharmacology*. 2019. **8(4)**: 205-210. 10.1002/psp4.12390
****Best 2018 Paper Award**
 79. Badée J, Qiu N, Parrott N, Collier AC, **Schmidt S**, Fowler S. Optimization of Experimental Conditions of Automated Glucuronidation Assays in Human Liver Microsomes Using a Cocktail Approach and Ultra-High Performance Liquid Chromatography-Tandem Mass Spectrometry. 2019. *Drug Metab Dispos*. **47(2)**:124-134.
 80. Badée J, Fowler S, deWildt SN, Collier AC, **Schmidt S**, Parrott N. The ontogeny of UDP-glucuronosyltransferase enzymes, recommendations for future profiling studies and application through physiologically based pharmacokinetic modelling. 2019. *Clin Pharmacokinet*. **58(2)**:189-211.
 81. Vozmediano V, Lukas JC, Encinas E, **Schmidt S**, Sologuren A, Valiente R, Labeaga L, Campo C, Rodriguez M. Model-Informed Pediatric Development Applied to Bilastine: analysis of the clinical PK data and confirmation of the dose selected for the target population. 2019. *Eur J Pharm Sci*. **128**:180-192.
 82. Wang CY, Pham P, Kim S, Lingineni K, **Schmidt S**, Diaby V, Brown J. Predicting Cost-Effectiveness of Generic Versus Brand Dabigatran Using Pharmacometric Estimates among Patients with Atrial Fibrillation in the United States. *Clinical and Translational Science*. 2019.
 83. De Miranda Silva C, Hajihosseini A, Myrick J, Nole J, Louie A, **Schmidt S**, Drusano GL. Effect of Moxifloxacin plus Pretomanid against Mycobacterium tuberculosis in Log Phase, Acid Phase, and Nonreplicating-Persister Phase in an In Vitro Assay. 2018. *Antimicrob Agents Chemother*. **63(1)**. pii: e01695-18.

84. Louie A, Duncanson B, Myrick J, Maynard M, Nole J, Brown D, **Schmidt S**, Neely M, Scanga C, Peloquin C, Drusano GL. Activity of Moxifloxacin against Acid-Phase and Nonreplicative Persister Phenotype Phase Mycobacterium tuberculosis in a Hollow Fiber Infection Model. 2018. *Antimicrob Agents Chemother.* **62(12)**. pii: e01470-18.
85. Biliouris K, Gaitonde P, Yin W, Norris D, Wang Y, Henry S, Fey R, Nestorov I, **Schmidt S**, Rogge M, Lesko LJ, Trame MN. Semi-mechanistic Population Pharmacokinetic Model of Nusinersen: An Antisense Oligonucleotide for the Treatment of Spinal Muscular Atrophy. 2018. *CPT Pharmacometrics Syst Pharmacol.* **7(9)**:581-592. doi: 10.1002/psp4.12323.
86. Zimmermann ES, de Miranda Silva C, Neris C, da Silva Torres BG, **Schmidt S**, Dalla Costa T. Population pharmacokinetic modeling to establish the role of P-glycoprotein on ciprofloxacin distribution to lung and prostate following intravenous and intratracheal administration to Wistar rats. 2018. *Eur J Pharm Sci.* **127**:319-329.
87. Lesko LJ, Vozmediano V, Brown JD, Winterstein A, Zhao P, Lippert J, Hoechel J, Chaturvedula A, White A, **Schmidt S**. Establishing a multidisciplinary framework to study drug-drug interactions of hormonal contraceptives: an invitation to collaborate. 2018. *CPT:Pharmacometrics Syst Pharmacol.* **7(11)**:706-708
88. Kovar L, **Schmidt S**, Derendorf H. Massgeschneidert - Die Pharmakogenetik ebnet den Weg für erfolgreiche individualisierte Interventionen. *Deutsche Apotheker Zeitung.* 2018.
89. Cristofolletti R, **Schmidt S**, Diniz A. Non-procrustean pathways for complex generic drugs development. *Therapeutic Delivery.* 2018. **9(9)**: 605-607.
90. De Miranda Silva C, Hajihosseini A, Myrick J, Nole J, Louie A, **Schmidt S**, Drusano GL. Effect of Linezolid plus Bedaquiline against Mycobacterium tuberculosis in Log-Phase, Acid-Phase and Non-Replicating-Persister (NRP)-Phase in an *In vitro* Assay. 2018 *Antimicrob Agents Chemother.* **62(8)**. pii: e00856-18.
91. Drusano GL, Myrick J, Maynard M, Nole J, Duncanson B, Brown D, **Schmidt S**, Neely M, Scanga C, Peloquin C, Louie A. Linezolid kills acid phase and non-replicative persister phase Mycobacterium tuberculosis in a hollow fiber infection model. 2018. *Antimicrob Agents Chemother.* **62(8)**. pii: e00221-18.
92. Willmann S, Zhang L, Frede M, Kubitz D, Mueck W, **Schmidt S**, Solms A, Yan X, Garmann D. Integrated population pharmacokinetic analysis of rivaroxaban across multiple patient populations. *CPT Pharmacometrics Syst Pharmacol.* **7(5)**:309-320.
93. Madras K, Li F, Kim MJ, Samant S, Voss S, Kehoe T, Bashaw E, Ahn HY, Wang Y, Florian J, **Schmidt S**, Lesko L, Li L. Regulatory perspectives in pharmacometric models of osteoporosis. 2018. *J Clin Pharmacol.* **58(5)**:572-585.
94. Mangal N, Hamadeh I, Arwood MJ, Cavallari LH, Samant TS, Klinker KP, Bulitta JB, **Schmidt S**. Optimization of voriconazole therapy for the treatment of invasive fungal infections in adults. 2018. *Clin Pharmacol Ther.* **104(5)**:957-965.
95. Gaitonde P, Hurtado F, Garhyan P, Chien JY, **Schmidt S**. Development and qualification of a drug-disease modeling platform to characterize clinically-relevant endpoints in Type 2 Diabetes trials. 2018. *Clin Pharmacol Ther.* **104(4)**:699-708.
96. Schlender JF, Vozmediano V, Golden AG, Rodriguez M, Samant TS, Lagishetty CV, Eissing T, **Schmidt S**. Current strategies to streamline pharmacotherapy for older adults. *Eur J Pharm Sci.* 2018; **111**: 432-442.
97. Mangal N, James MO, Stacpoole PW, **Schmidt S**. Model Informed Dose Optimization of Dichloroacetate for the Treatment of Congenital Lactic Acidosis in Children. *J Clin Pharmacol.* 2018; **58**: 212-220.
98. De Miranda Silva C, Rocha A, Tozatta E, da Silva LM, Donadi EA, Dalla Costa T, Lanchote VL, **Schmidt S**, Bulitta J. Development of an Enantioselective and

- Biomarker-Informed Translational Pharmacokinetic/Pharmacodynamic Model for Etodolac. *AAPS J.* 2017; **19**:1814-1825. ****Shared corresponding authorship**
99. Lensing AWA, Male C, Young G, Kubitz D, Kenet G, Massicotte P, Chan A, Molinari AC, Nowak-Goettl U, Pap AF, Adalbo I, Smith WT, Mason A, Thelen K, Berkowitz SD, Crowther M, **Schmidt S**, Price V, Prins MH, Monagle P. Rivaroxaban versus standard anticoagulation for acute venous thromboembolism in childhood. Design of the EINSTEIN-Jr phase III study. *Thrombosis Journal.* 2018. 16(34):
 100. Deng J, Vozmediano V, Rodriguez M, Cavallari LH, **Schmidt S**. Genotype-guided dosing of warfarin through modeling and simulation. *Eur J Pharm Sci.* 2017; 109S: S9-S14.
 101. Samant T, Lukacova V, **Schmidt S**. Development and qualification of physiologically based pharmacokinetic models for drugs with atypical distribution behavior: a desipramine case study. *CPT Pharmacometrics Syst Pharmacol.* 2017; **6**:315-321.
 102. Arwood MJ, Deng J, Drodza K, Pugach O, Nutescu EA, **Schmidt S**, Duarte JD, Cavallari LH. Anticoagulation endpoints with clinical implementation of warfarin pharmacogenetics dosing in a real-world setting: A proposal for a new pharmacogenetics dosing approach. *Clin Pharmacol Ther* 2017; **101**:675-683.
 103. Hamadeh IS, Klinker KP, Borgert SJ, Richards AI, Li W, Mangal N, Hiemenz JW, **Schmidt S**, Langaee TY, Peloquin CA, Johnson JA, Cavallari LH. Impact of the CYP2C19 genotype on voriconazole exposure in adults with invasive fungal infections. *Pharmacogenet Genomics.* 2017; **27**:190-196.
 104. Samant S, Jiang XL, Peletier LA, Shuldiner AR, Horenstein RB, Lewis JP, Lesko LJ, **Schmidt S**. Identifying clinically-relevant sources of variability: the clopidogrel challenge. *Clin Pharmacol Ther* 2017; **101**:264-273.
 105. Peletier LA, Jiang XL, Samant S, and **Schmidt S**. Analysis of a complex physiology-directed model for inhibition of platelet aggregation by clopidogrel. *Discrete Continuous Dyn Syst Ser A.* 2017; **37**:945-61.
 106. Jiang XL, Shen HW, Mager DE, Schmidt S, Yu AM. Development of a mechanism-based pharmacokinetic/pharmacodynamic model to characterize the thermoregulatory effects of serotonergic drugs in mice. *Acta Pharmaceutica Sinica B.* 2016; **6**:492-503.
 107. Pigatto MC, de Araujo BV, Torres BG, **Schmidt S**, Magni P, Dalla Costa T. Population Pharmacokinetic Modeling of Etoposide Free Concentrations in Solid Tumor. *Pharm Res.* 2016; **33**: 1657-70.
 108. Lagishetty CV, Deng J, Lesko LJ, Rogers H, Pacanowski M, **Schmidt S**. How informative are drug-drug interactions of gene-drug interactions? *J Clin Pharmacol.* 2016; **56**: 1221-31.
 109. Gaitonde P, Garhyan P, Link C, Chien JY, Trame MN, **Schmidt S**. A comprehensive review of novel drug-disease models in diabetes drug development. *Clin Pharmacokinet.* 2016; **55**:769-88.
 110. Jiang XL, Samant S, Horenstein RB, Shuldiner AR, Yerges-Armstrong LM, Peletier LA, Lesko LJ, **Schmidt S**. Development of a physiology-directed population pharmacokinetic and pharmacodynamic model for characterizing the impact of genetic and demographic factors on clopidogrel response in healthy adults. *Eur J Pharm Sci.* 2016; **82**: 64-78.
 111. Somani AA, Thelen K, Zheng S, Trame MN, Coboeken, K, Meyer M, Schnizler K, Ince I, Willmann S, **Schmidt S**. Evaluation of changes in oral drug absorption in preterm and term neonates for Biopharmaceutics Classification System (BCS) class I and II compounds. *Br J Clin Pharmacol.* 2016; **81**: 137-47.
 112. Zimmermann ES, Laureano JV, dos Santos CN, **Schmidt S**, Lagishetty CV, de Castro WV, Dalla Costa T. A simultaneous semi-mechanistic population analysis of

- levofloxacin in plasma, lung and prostate to describe the influence of efflux transporters on drug distribution following intravenous and intratracheal administration. *Antimicrob Agents Chemother.* 2015; **60**: 946-54.
113. Samant TS, Mangal N, Lukacova V, **Schmidt S**. Quantitative clinical pharmacology for size and age scaling in pediatric drug development: a systematic review. *J Clin Pharmacol.* 2015; **55**: 1207-17. ****Editor's choice of the month**
 114. Jiang XL, Samant S, Lesko LJ, **Schmidt S**. Clinical pharmacokinetics and pharmacodynamics of clopidogrel. *Clin Pharmacokinet.* 2015; **54**: 147-166.
 115. Zhang XY, Trame MN, Lesko LJ, **Schmidt S**. Sobol sensitivity analysis: a tool to guide the development and evaluation of systems pharmacology models. *CPT Pharmacometrics Syst Pharmacol.* 2015 Feb 25; 4:e6. doi: 10.1002/psp4.6.
 116. Zheng S, Matzneller P, Zeitlinger M, **Schmidt S**. Development of a population pharmacokinetic model characterizing the tissue distribution of azithromycin in healthy subjects. *Antimicrob Agents Chemother.* 2014; **58**: 6675-84.
 117. Zheng S, Gaitonde P, Andrew MA, Gibbs MA, Lesko LJ, **Schmidt S**. Model-based assessment of dosing strategies in children for monoclonal antibodies exhibiting target-mediated drug disposition. *CPT Pharmacometrics Syst Pharmacol.* 2014 Oct 1;3:e138. doi: 10.1038/psp.2014.38.
 118. Lesko LJ and **Schmidt S**. Clinical implementation of genetic testing in medicine: a US regulatory science perspective. *Br J Clin Pharmacol.* 2014; **77**: 606-11.
 119. Brill M, Houwink A, **Schmidt S**, van Dongen E, Hazebroek E, van Ramshorst B, Deneer V, Mouton J, Knibbe C. Reduced subcutaneous tissue distribution of cefazolin in morbidly obese versus non-obese patients determined using clinical microdialysis. *J Antimicrob Chemother.* 2014; **69**: 715-23.
 120. Barbour A, **Schmidt S**, Zhuang L, Rand KH, Derendorf H. Application of pharmacokinetic/pharmacodynamic modeling and simulation for the prediction of target attainment of ceftobiprole against methicillin-resistant *Staphylococcus aureus* using MIC and time-kill curve based approaches. *Int J Antimicrob Agents.* 2014; **43**: 60-7.
 121. Jiang XL, Zhao P, Barrett JS, Lesko LJ, **Schmidt S**. Application of physiologically-based pharmacokinetic modeling to predict acetaminophen metabolism & pharmacokinetics in children. *CPT Pharmacometrics Syst Pharmacol.* 2013 Oct 16;2:e80. doi: 10.1038/psp.2013.55.
 122. Boroujerdi MA, **Schmidt S**. A negative feedback model for a mechanism based description of longitudinal observations: application for bone turnover markers. *Methods Inf Med.* 2013; **52**: 484-93.
 123. Heuberger J, **Schmidt S**, Derendorf H. When is protein binding important? *J Pharm Sci.* 2013; **102**: 3458-67.
 124. Lesko LJ, Zheng S, **Schmidt S**. Systems approach in risk assessment. *Clin Pharmacol Ther.* 2013; **93**: 413-424.
 125. Gonzales D, **Schmidt S**, Derendorf H. Importance of relating efficacy measures to unbound drug concentrations for anti-infective agents. *Clin Microbiol Rev.* 2013; **26**: 274-88.
 126. Post TM, **Schmidt S**, Peletier LA, de Greef R, Kerbusch T, Danhof M. Application of a mechanism-based disease systems model for osteoporosis to clinical data. *J Pharmacokinet Pharmacodyn.* 2013; **40**: 143-56.
 127. Lesko LJ and **Schmidt S**. Individualization: history, present state and opportunities for the future. *Clin Pharmacol Ther.* 2012; **92**: 458-66.

128. **Schmidt S**, Post TM, Peletier LA, Boroujerdi MA, Danhof M. Coping with time scales in disease systems analysis: application to bone remodeling. *J Pharmacokinet Pharmacodyn.* 2011; **38**: 873-900.
129. Liem-Moolenaar M, de Boer P, Timmers M, Schoemaker RC, van Hasselt JGC, **Schmidt S**, van Gerven JMA Pharmacokinetic-pharmacodynamic relationships of central nervous system effects of scopolamine in healthy subjects. *Br J Clin Pharmacol.* 2011; **71**: 886-98.
130. Burkhardt O, Kumar V, **Schmidt S**, Kielstein JT, Welte T, Derendorf H. Underdosing of ertapenem in critically ill patients with pneumonia confirmed by Monte Carlo simulations. *Int J Antimicrob Agents.* 2010; **35**: 96-7.
131. **Schmidt S**, Gonzalez D, Derendorf H. Significance of protein binding in pharmacokinetics and pharmacodynamics. *J Pharm Sci.* 2010; **99**: 1107-22.
132. **Schmidt S**, Sabarinath SN, Barbour A, Abbanat D, Manitpisitkul P, Sha S, Derendorf H. pharmacokinetic-pharmacodynamic modeling of the in vitro activity of oxazolidinone antimicrobial agents against methicillin-resistant *Staphylococcus aureus*. *Antimicrob Agents Chemother.* 2009; **53**: 5039-45.
133. Barbour A, **Schmidt S**, Ma B, Schiefelbein L, Rand KH, Burkhardt O, Derendorf H. Clinical pharmacokinetics and pharmacodynamics of tigecycline. *Clin Pharmacokinet.* 2009; **48**: 575-84.
134. Barbour A, **Schmidt S**, Rout WR, Ben-David K, Burkhardt O, Derendorf H. Soft tissue penetration of cefuroxime determined by clinical microdialysis in morbidly obese patients undergoing abdominal surgery. *Int J Antimicrob Agents.* 2009; **34**: 231-5.
135. Barbour A, **Schmidt S**, Sabarinath SN, Grant M, Seubert C, Skee D, Murthy B, Derendorf H. Soft-tissue penetration of ceftobiprole in healthy volunteers determined by in vivo microdialysis. *Antimicrob Agents Chemother.* 2009; **53**: 2773-6.
136. Li Y, Nguyen MH, **Schmidt S**, Zhong L, Derendorf H, Clancy CJ. Pharmacokinetic/pharmacodynamic modelling and in vitro simulation of dynamic voriconazole-Candida interactions. *Int J Antimicrob Agents.* 2009; **34**: 240-5.
137. Barbour A, **Schmidt S**, Rand KH, Derendorf H. Ceftobiprole: a novel cephalosporin with activity against Gram-positive and Gram-negative pathogens, including methicillin-resistant *Staphylococcus aureus* (MRSA). *Int J Antimicrob Agents.* 2009; **34**: 1-7.
138. **Schmidt S**, Rock K, Sahre M, Burkhardt O, Brunner M, Lobmeyer MT, Derendorf H. Effect of protein binding on the pharmacological activity of highly bound antibiotics. *Antimicrob Agents Chemother.* 2008; **52**: 3994-4000.
139. **Schmidt S**, Barbour A, Sahre M, Rand KH, Derendorf H. PK/PD: new insights for antibacterial and antiviral applications. *Curr Opin Pharmacol.* 2008; **8**: 549-56.
140. **Schmidt S**, Banks R, Kumar V, Rand KH, Derendorf H. Clinical microdialysis in skin and soft tissues: an update. *J Clin Pharmacol.* 2008; **48**: 351-64.
141. Li Y, Nguyen MH, Cheng S, **Schmidt S**, Zhong L, Derendorf H, Clancy CJ. A pharmacokinetic/pharmacodynamic mathematical model accurately describes the activity of voriconazole against *Candida* spp. in vitro. *Int J Antimicrob Agents.* 2008; **31**: 369-74.
142. Treyaprasert W, **Schmidt S**, Rand KH, Suvanakoot U, Derendorf H. Pharmacokinetic/pharmacodynamic modeling of in vitro activity of azithromycin against four different bacterial strains. *Int J Antimicrob Agents.* 2007; **29**: 263-70.
143. **Schmidt S**, Schuck E, Kumar V, Burkhardt O, Derendorf H. Integration of pharmacokinetic/pharmacodynamic modeling and simulation in the development of new anti-infective agents - minimum inhibitory concentration versus time-kill curves. *Expert Opin Drug Discov* 2007; **2**: 849-60.

144. Burkhardt O, Brunner M, **Schmidt S**, Grant M, Tang Y, Derendorf H. Penetration of ertapenem into skeletal muscle and subcutaneous adipose tissue in healthy volunteers measured by in vivo microdialysis. *J Antimicrob Chemother.* 2006; **58**: 632-6.

Books:

1. Derendorf H and **Schmidt S** (ed.) *Rowland and Tozer's Clinical Pharmacokinetics and Pharmacodynamics: Concepts and Applications*. Fifth Edition. Wolters Kluwer, Alphen aan den Rijn, Netherlands, 2019, 1-939.
2. **Schmidt S** and Derendorf H (ed.) *Applied pharmacometrics*. Springer, New York, NY, 2014.

Book Chapters:

1. Ait-Oudhia S, Lien YT, Basu S, Lesko LJ, **Schmidt S**. Quantitative Pharmacology and Individualized Therapy Strategies in Development of Therapeutic Proteins for Immune-Mediated Inflammatory Diseases in Application of Pharmacometrics and Systems Pharmacology to Current and Emerging Biologics in Inflammatory Bowel Disease. John Wiley & Sons, Inc., 2018.
2. Berkhout J, Madrasi K, Li F, Li L, Kim MJ, Wang Y, Samant S, Post T, **Schmidt S**. Academic, industry and regulatory application of quantitative pharmacometric approaches in osteoporosis disease and treatment characterization. accepted for publication in *Pharmacometrics*, 2nd edition. John Wiley & Sons, Inc. Hoboken, New Jersey.
3. Schlender JF, Golden AG, Samant TS, Lagishetty CV, **Schmidt S**. The personalization of Drug Therapy for Elderly Patients. Accepted In: Stegemann S (ed.) *Developing drugs for the older patient*. Springer, NY, 2016: 589-611.
4. Gaitonde P, Miller S, Trame MN, **Schmidt S**. Quantitative Approaches in Translational Research: An Overview. In: Krentz A, Heinemann L, Hompesch (ed). *Translational research methods for diabetes, obesity, and cardiometabolic drug development*, Springer, New York, NY, 2015: 243-264.
5. Garhyan P, Topp BG, Chien JY, Sinha VP, Danhof M, **Schmidt S**. Drug-disease model-based development of therapeutic agents for treatment of diabetes. In: **Schmidt S** and Derendorf H (ed.) *Applied pharmacometrics*. Springer, New York, NY, 2014: 139-159.
6. **Schmidt S**, Post TM, Boroujerdi M, van Kesteren C, Ploeger BA, Della Pasqua OE, Danhof M. Disease progression analysis: towards mechanism-based models. In: Kimko H and Peck C (ed). *Clinical trial simulations – applications and trends*. Springer, New York, NY; 2010: 437-60.

List of Oral Presentations:

1. **Schmidt S**. Seminar. Challenges and Opportunities for Translational Research: The Power of Data Integration. Department of Mathematics, University of Florida. Orlando, FL. February 23, 2023.
2. **Schmidt S.**, Gupta C, Vozmediano V. Poster. QSP approach for α -synuclein pathology in Parkinson's Disease. 36th UF College of Pharmacy Annual Research Showcase, Gainesville, FL. February 6, 2023.

3. **Schmidt S.** Poster. Optimizing the Safety Profile of Ropivacaine Administered via Erector Spinae Plane Blocks. 36th UF College of Pharmacy Annual Research Showcase, Gainesville, FL. February 6, 2023.
4. **Schmidt S.** Poster. Dosing optimization for voriconazole in critically ill patients diagnosed with aspergillosis. 36th UF College of Pharmacy Annual Research Showcase, Gainesville, FL. February 6, 2023.
5. **Schmidt S.** Poster. Integrating Operational Model of Agonist in Model Based Meta-Analysis for Assessing Inhibition of Ovulation Rate by Different Progestins. 36th UF College of Pharmacy Annual Research Showcase, Gainesville, FL. February 6, 2023.
6. **Schmidt S.** Poster. Leveraging PBPK DDI application between Phenytoin and Omeprazole in special populations. 36th UF College of Pharmacy Annual Research Showcase, Gainesville, FL. February 6, 2023.
7. **Schmidt S.** Poster. A Physiological Based Pharmacokinetic Modeling Approach to Interpret Nonlinear Behavior of Carbamazepine and its DDI Potential on CYP3A4 and CYP2C9. 36th UF College of Pharmacy Annual Research Showcase, Gainesville, FL. February 6, 2023.
8. **Schmidt S.** Seminar. Empowering Translational Research Through Data Integration. University of Florida, Department of Medicine, Division of Pulmonary, Critical Care, and Sleep Medicine, Laboratory for Systems Medicine. Gainesville, FL. January 31, 2023.
9. **Schmidt S.** Seminar. Empowering Translational Research Through Data Integration. Universitaet Bonn. Virtual. December 5, 2022.
10. **Schmidt S.** Seminar. The Next Frontier in Quantitative Clinical Pharmacology: A Personal Perspective. Department of Environmental and Global Health, University of Florida. Virtual. November 2, 2022.
11. **Schmidt S.** Seminar. A Combined Pharmacometrics and Real-World Data Analysis Approach to Understanding Drug-Drug Interactions for Hormonal Contraceptives. Bayer AG, Berlin Germany. October 19, 2022.
12. **Schmidt S.** Lecture. Model-Informed Drug Development: Application to Post-Menopausal Osteoporosis. Peking University Third Hospital. Virtual. October 12, 2022.
13. **Schmidt S.** Seminar. Empowering Translational Research Through Data Integration. Genentech, San Francisco. October 4, 2022.
14. **Schmidt S.** Symposium. Pharmacometrics, PBPK, QSP, What's Next? Uppsala University, Uppsala, Sweden. September 14, 2022.
15. **Schmidt S.** Seminar. Empowering Translational Research Through Data Integration. Freie Universitaet Berlin. Berlin, Germany. September 7, 2022.
16. **Schmidt S.** Lecture. Model-Informed Drug Development: Concepts and Applications. Freie Universitaet Berlin. Berlin, Germany. August 5, 2022.
17. **Schmidt S.** Seminar. When An Opportunity Arises, Don't Pull Down The Shutter. Freie Universitaet Berlin. Berlin, Germany. July 20, 2022.
18. **Schmidt S.** Workshop. Understanding Contraceptive DDIs through Combining Pharmacology Models and RWDA. March DDI Workshop. Marbach, Germany. May 30, 2022.
19. **Schmidt S.** Workshop. PK-Sim/Systems Pharmacology Overview. Bill & Melinda Gates Foundation. Seattle. May 16, 2022.
20. **Schmidt S.** Symposium. Setting the Scene – Why, How and Hurdles? Arbeitsgemeinschaft für Angewandte Humanpharmakologie e.V. Saarbruecken, Germany. April 29, 2022.
21. **Schmidt S.** Symposium. How much complexity do we need? Quantitative Systems Pharmacology Conference 2022. Leiden, The Netherlands. April 20, 2022.

22. **Schmidt S.**, Cicali B, Cristofolletti R, Pressly M, Kim S, Wendl T, Vozmediano V. Poster. PBPK-based Exposure Bracketing of Subcutaneous Levonorgestrel for Evaluating Drug-Drug Interactions. American Conference on Pharmacometrics. Virtual. November 11, 2021.
23. **Schmidt S.**, Tatipalli M, Siripuram VK, Long T, Shuster D, Bernstein G, Martineau P, Cook KA, Cristofolletti R, Vozmediano V. Poster. A model informed dose extrapolation of a new spironolactone liquid formulation. American Conference on Pharmacometrics. Virtual. October 24, 2021.
24. **Schmidt S.**, Morales JF, Lingineni K, Thomas M, Lang P, Podichetty J, Burton J, David S, Dunne J, Atkinson MA, Haller MJ, Romero K, O'Doherty I, Kim S. Modeling Longitudinal Glucose Dynamics to Inform Type 1 Diabetes Prevention Clinical Trial Studies. American Conference on Pharmacometrics. Virtual. October 4, 2021.
25. **Schmidt S.**, Morales JF, Lingineni K, Thomas M, Lang P, Podichetty J, Burton J, David S, Dunne J, Atkinson MA, Haller MJ, Romero K, O'Doherty I, Kim S. Quantifying heterogeneity contributing to risk of type 1 diabetes diagnosis. University of Florida College of Pharmacy Research Showcase 34th held virtually. April 13, 2021.
26. **Schmidt S.**, Morales JF. Quantifying heterogeneity contributing to risk of type 1 diabetes. University of Florida, Center for Pharmacometrics & Systems Pharmacology, Lake Nona Leadership Council Virtual Meeting. April 7, 2021.
27. **Schmidt S.** Poster. A Systems based model to understand progression of Parkinson's disease. ASCPT virtual meeting. March 12, 2021.
28. **Schmidt S.** Poster. CYP2D6-Mediated Drug-Drug Interaction (DDI) between Tramadol, O-Desmethyltramadol and Quinidine via Allosteric Inhibition using Physiologically-based Pharmacokinetic (PBPK) Modeling and Simulation. ASCPT Annual Virtual Meeting. March 8, 2021.
29. **Schmidt S.** Poster. Physiologically-based Pharmacokinetic (PBPK) Modeling to Assess CYP2D6-Mediated Drug-Drug Interaction (DDI) between Tramadol and Metoprolol due to Competitive Inhibition. ASCPT Annual Virtual Meeting. March 8, 2021.
30. **Schmidt S.** Speech. CYP2D6-Mediated Drug-Drug Interaction (DDI) between Tramadol, O-Desmethyltramadol and Quinidine via Allosteric Inhibition using Physiologically-based Pharmacokinetic (PBPK) Modeling and Simulation. ASCPT DUO Community Meeting-oral presentation, virtual. February 9, 2021.
31. **Schmidt S.** Symposium. Bridging the Gap Between in Vitro, Animal, and Human via Modeling and Simulation. American Association of Pharmaceutical Scientists. Virtual. Oct 29, 2020.
32. **Schmidt S.** Keynote. Model-Informed Drug Development: Challenges and Opportunities. Gulf Coast Consortium. Virtual. Oct 22, 2020.
33. **Schmidt S.**, Long T, Cristofolletti R, Turgeon J, Michaud V, Galiano L, Farhan N. Poster. Physiologically-based Pharmacokinetic (PBPK) Modeling to Assess the Impact of Cytochrome P450 2D6 Activity on Tramadol and O-Desmethyltramadol Exposure. The 11th American Conference on Pharmacometrics. Virtual. October 4, 2020.
34. **Schmidt S.**, Lingineni K, Morales JF, Conrado DJ, Vong C, Hanan N, Corey D, Burton J, Larkindale J, Romero K, Kim S. Poster. Towards Achieving Regulatory Endorsement of a Disease Progression Model-Based Clinical Trial Simulation Tool for Duchenne Muscular Dystrophy – Models of Progression of Timed Motor Function Tests. The 11th American Conference on Pharmacometrics. Virtual. October 4, 2020

35. **Schmidt S.,** Vozmediano V, Cicali B, Lingineni K, Cristofolletti R, Wendl T, Hoechel J, Wiesinger H, Wiesinger H. Poster. Development and Verification of a Levonorgestrel PBPK Model for Enzyme-Mediated Drug Interaction Studies. The 11th American Conference on Pharmacometrics. Virtual. October 4, 2020
36. **Schmidt S.,** Cicali B, Cristofolletti R, Wendl T, Lingineni K, Hoechel J, Wiesinger H, Vozmediano V. Poster. Expansion of a Levonorgestrel Physiologically-Based Pharmacokinetic Model (PBPK) to Evaluate the Pharmacokinetic/Pharmacodynamic (PKPD) Effects of SHBG Protein Binding. The 7th Pharmaceutical Sciences World Congress. Virtual. October 4, 2020
37. **Schmidt S.,** Larkindale J, Kim S, Lingineni K, Morales JF, Corey D, Burton J, Aggarwal V, Romero K. Poster. Development of A Regulatory-Ready Clinical Trial Simulation Tool for Duchenne Muscular Dystrophy. World Muscle Society Virtual Congress. September 28, 2020
38. **Schmidt S.,** Vandenborne K, Kim S, Willcocks RJ, Morales JF, Lingineni K, Barnard AM, Daniels MJ, Triplett WT, Larkindale J, Walter GA, Rooney WD. Poster. Development of Clinical Trial Simulation Tools for Duchenne Muscular Dystrophy using MR Imaging Biomarkers. World Muscle Society Virtual Congress. September 28, 2020
39. **Schmidt S.** Symposium. Pharmacokinetics/Pharmacodynamics of Traditional Antimicrobial Drugs: Lessons to Be Learned for Bacteriophages. American College of Clinical Pharmacology. Virtual. Sep 23, 2020.
40. **Schmidt S.** Symposium. Integration Pharmacometrics and Epidemiological Approaches: Why, What and How. American College of Clinical Pharmacology. Virtual. Sep 22, 2020.
41. **Schmidt S.,** Lingineni K, Cicali B, Chaturvedula A, Cristofolletti R, Wendl T, Hoechel J, Wiesinger H, Vozmediano V, Zhao P. Poster. Quantitative Evaluation of Levonorgestrel Efficacy in Drug-Drug Interaction (DDI) Scenarios in Healthy and Obese Women: Applications of Integrated Physiologically-based Pharmacokinetic (PBPK) Modeling & Model Based Meta Analysis (MBMA). American College of Clinical Pharmacology. Virtual. September 11, 2020.
42. **Schmidt S. Speech.** Scientific Methods: A Personal Perspective. Innovation Montessori Ocoee. Winter Garden, FL, USA. Sep 4, 2020.
43. **Schmidt S.,** Larkindale J, Kim S, Lingineni K, Morales JF, Corey D, Burton J, Aggarwal V, Romero K. Poster. The Duchenne Regulatory Science Consortium: Solutions to Bottlenecks That Slow Drug Development. Poster. Parent Project Muscular Dystrophy 2020 Virtual Annual Conference. July 22, 2022.
44. **Schmidt S.,** Cicali B, Cristofolletti R, Wendl T, Lingineni K, Hoechel J, Wiesinger H, Vozmediano V. Poster. Expansion of a Levonorgestrel Physiologically-Based Pharmacokinetic Model (PBPK) to Evaluate the Pharmacokinetic/Pharmacodynamic (PKPD) Effects of SHBG Protein Binding. 6th Pharmaceutical Sciences World Congress. Montreal, Canada, (Meeting cancelled due to COVID-19 pandemic). May 22, 2020.
45. **Schmidt S. Seminar.** Mathematical Modeling - Experimental Considerations. Global Alliance for TB Drug Development. New York. May 5, 2020.
46. **Schmidt S.** "A Model-and Systems-Based Approach to Efficacy and Safety Questions Related to Generic Substitution in Breakout Session 4: Data Analysis and Model-Based Bioequivalence during the FY 2020 Generic Drug Regulatory Science Initiatives Public Workshop" presented at an U.S. Food and Drug Administration, Office of Generic Drugs workshop. Webinar presented online due to COVID19. May 04, 2020.

47. **Schmidt S.** Lecture. The Role of Model-Informed Drug Discovery and Development in Enhancing Public Health: State of the Art, Innovation or Disruption?. U.S. Food and Drug Administration. Silver Spring, MD. Mar 4, 2020.
48. **Schmidt S.,** Lingineni K, Conrado DJ, Corey D, Hill H, Larkindale L, Romero K, Kim S. Poster. Towards Achieving Regulatory Endorsement of a Disease Progression Model-based Clinical Trial Simulation Tool for Duchenne Muscular Dystrophy– Model of Progression of Forced Vital Capacity. American Society of Clinical Pharmacology & Therapeutics. Canceled due to COVID-19, Houston, TX. March 3, 2020.
49. **Schmidt S.,** Lingineni K, Turgeon J, Michaud V. Poster. PBPK modeling of Clopidogrel and its active metabolite when administered alone or during concomitant administration with Esomeprazole considering time-dependent inhibition. American Society of Clinical Pharmacology & Therapeutics. Canceled due to COVID-19, Houston, TX. March 3, 2020.
50. **Schmidt S.,** Kim S, Willcocks RJ, Morales JF, Daniels MJ, Triplett WT, Larkindale J, Walter GA, Rooney WD. Poster. Development of Clinical Trial Simulation Tools for Duchenne Muscular Dystrophy using MR Imaging Biomarkers. 18th International Conference on Duchenne and Becker Muscular Dystrophy held in Rome, Italy. February 28, 2020.
51. **Schmidt S.,** Lien Y, Lam E, Vozmediano V. Speech. Optimizing ketamine dosing regimen in critically ill patients on ECMO therapy using a population pharmacokinetic approach. 33rd UF College of Pharmacy Annual Research Showcase, Gainesville, FL. February 10, 2020.
52. **Schmidt S.,** Lingineni K, Farhan N, Kim S, Gordon L, Penzak S, Hadigan C, George JM. Poster. Quantitative benefit-risk assessment of P-gp mediated drug-drug interactions of dabigatran co-administered with pharmacokinetic enhancers in patients with renal impairment. 33rd UF College of Pharmacy Annual Research Showcase, Gainesville, FL. February 10, 2020.
53. **Schmidt S.** “Combining Forces in Drug Development and Regulatory Decision Making: The Time Has Come” presented at ANVISA, Brasilia, Brazil, November 4, 2019.
54. Brown JD, **Schmidt S.** “Combining Real-World Data Analysis and Pharmacometrics to Assess the Value of Generic Drugs: Retrospective and Prospective Examples in Cardiology Therapeutic Areas” presented at the Academy of Managed Care Pharmacy Nexus 2019, National Harbor, MD. October 29, 2019 to November 01, 2019.
55. **Schmidt S.** “The Big Black Box – The Review and Revision Process of your Manuscript Explained and How it Helps you in Writing your Manuscript” presented at the Annual Meeting of the American College of Clinical Pharmacology. Chicago, September 15, 2019.
56. **Schmidt S.** “Ontogeny and Phase II Metabolism of Drugs” presented at an U.S. Food and Drug Administration workshop. Bethesda. May 16, 2019.
57. **Schmidt S.** “Pharmacometrics, PBPK, QSP – What’s Next?” presented at Rosa Webinar Series, March 14, 2019.
58. **Schmidt S,** Cicali B, Kirouac D. Poster. Developing a QSP Model Repository for CPT-PSP: Challenges and Future Opportunities. The American Society for Clinical Pharmacology and Therapeutics. Washington, DC. Mar 14, 2019 - Mar 14, 2019.
59. **Schmidt S,** Badee J, Qiu N, Parrott N, Fowler S. “Optimization of experimental conditions of automated glucuronidation assays in human liver microsomes using a cocktail approach and high-performance liquid chromatography-tandem mass spectrometry” presented at 2019 Hot Topics in the Lab, one-day Drug Metabolism Discussion Group meeting. March 07, 2019. Cambridge, UK.

60. **Schmidt S**, Cicali B, Collin AJ, Vega A, Raghunandan S. Poster. Bridging the Gap of Macrolide Resistance Mechanisms and Clinical Application through PK/PD Modeling and Pharmacovigilance Analyses. University of Florida COP. Gainesville, FL. Feb 11, 2019 - Feb 11, 2019.
61. **Schmidt S**, Farhan N, Basu S, Kim S, Lingineni K, Vozmediano V, Ait-Oudhia S, Fang L, Zhao L, Lesko L. Poster. Application of Physiologically-Based Oral Absorption & Pharmacokinetic Modeling to Investigate Formulation Factors Influencing the Pharmacokinetics of Novel Oral Anticoagulants. University of Florida COP. Gainesville, FL. Feb 11, 2019 - Feb 11, 2019.
62. **Schmidt S**, Lien YT, Madrasi K, Samant S, Kim M, Li F, Li L. Poster. Quantification of postmenopausal osteoporosis population: An system pharmacology approach using bisphosphonates. University of Florida COP. Gainesville, FL. Feb 11, 2019 - Feb 11, 2019.
63. **Schmidt S**, Jiang S, Farhan N, Vozmediano V. Poster. Population parent-metabolite pharmacokinetic modeling of acetaminophen protein adducts, a biomarker of acetaminophen induced hepatotoxicity. University of Florida. Gainesville, FL. Feb 11, 2019 - Feb 11, 2019.
64. **Schmidt S**. "MID3: An Opportunity for Innovation and Collaboration" presented at the Iberoamerican Pharmacometrics Network meeting. Guadalajara. November 7, 2018.
65. **Schmidt S**, Jiang S, Farhan N, Vozmediano V. Poster. Updated physiologically based pharmacokinetic (PBPK) model for acetaminophen metabolism with an emphasis on phase I metabolism. American Association of Pharmaceutical Scientists. Washington, DC. Nov 5, 2018 - Nov 5, 2018.
66. **Schmidt S**, Cicali B, Collin AJ, Vega A, Raghunandan S. Poster. Bridging the Gap of Macrolide Resistance Mechanisms and Clinical Application through PK/PD Modeling and Pharmacovigilance Analyses. American Conference on Pharmacometrics. San Diego, CA. Oct 10, 2018 - Oct 10, 2018.
67. **Schmidt S**, Farhan N, Basu S, Kim S, Lingineni K, Vozmediano V, Ait-Oudhia S, Fang L, Lesko L. Poster. Application of Physiologically-Based Oral Absorption & Pharmacokinetic Modeling to Investigate Formulation Factors Influencing the Pharmacokinetics of Novel Oral Anticoagulants. American Conference on Pharmacometrics. San Diego, CA. Oct 10, 2018 - Oct 10, 2018.
68. **Schmidt S**, Jiang S, Jin JY, Deng R. Poster. Practical identifiability analysis and pharmacokinetic sampling optimization for monoclonal antibodies with nonlinear pharmacokinetics in first-in-human studies. American Conference on Pharmacometrics. San Diego, CA. Oct 10, 2018 - Oct 10, 2018.
69. **Schmidt S**, Hajihosseini A, Maleki F, Lien YT, Vozmediano V. Poster. The Effect of Monoclonal Antibodies Pharmacokinetics on the Tumor Cells Dynamics: A Bifurcation Analysis. American Conference on Pharmacometrics. San Diego, CA. Oct 8, 2018 - Oct 8, 2018.
70. **Schmidt S**, Lien YT, Madrasi K, Samant S, Kim M, Li F, Li L. Poster. Quantification of postmenopausal osteoporosis population: An system pharmacology approach using bisphosphonates. Globalization of Pharmaceuticals Education Network. Singapore, Singapore. Sep 27, 2018 - Sep 28, 2018.
71. **Schmidt S**, Jiang S, Vozmediano V, James L, Rahman S. Poster. Population parent-metabolite pharmacokinetic modeling of acetaminophen protein adducts, a biomarker of acetaminophen induced hepatotoxicity. American College of Clinical Pharmacology. Bethesda, MD. Sep 23, 2018 - Sep 23, 2018.
72. **Schmidt S**, Badee J, Qiu N, Collier CA, Takahashi RH, Parrott N, Fowler S. Poster. Characterization of the ontogeny of hepatic UDP-glucuronosyltransferase enzymes

- based on glucuronidation activity measured in human liver microsomes. American College of Clinical Pharmacology. Bethesda, MD. Sep 22, 2018 - Sep 25, 2018.
73. **Schmidt S**, Badee J, Qiu N, Parrott N, Fowler S. Poster. Optimization of experimental conditions of automated glucuronidation assays in human liver microsomes using a cocktail approach and ultra-high performance liquid chromatography-tandem mass spectrometry. Gordon Research Conference. Holderness, NH. Jul 8, 2018 - Jul 13, 2018.
 74. **Schmidt S**. “A model- and systems-based approach to efficacy and safety questions related to generic substitution” presented at an U.S. Food and Drug Administration workshop. Silver Spring. May 24, 2018,
 75. **Schmidt S**. “Integrating human-on-a-chip and clinical endpoints: a physiologically-based modeling approach” presented at Takeda. Boston. March 15, 2018.
 76. **Schmidt S**. “Pharmacometric models of osteoporosis” presented at Keio University, Tokyo. February 17, 2018.
 77. **Schmidt S**. “Pharmacometrics and Systems Pharmacology – What’s in it for me?” presented at Sanofi. Bridgewater. November 13, 2017.
 78. **Schmidt S**. “How informative and drug-drug interactions of gene-drug interactions?” presented as an American Society for Clinical Pharmacology and Therapeutics (ASCPT) webinar. Orlando. November 6, 2017.
 79. **Schmidt S**. “A model- and systems-based approach to efficacy and safety questions related to generic substitution” presented at an U.S. Food and Drug Administration, Office of Generic Drugs workshop. Silver Spring. October 2, 2017.
 80. **Schmidt S**. Symposium. Model-based Assessment of Dosing Strategies in Children for Monoclonal Antibodies Exhibiting Target-mediated Drug Disposition. American College of Clinical Pharmacology. San Diego. Sep 17, 2017.
 81. **Schmidt S**. “Development and qualification of a mechanistic drug-disease modeling platform to characterize clinically relevant endpoints in Type 2 Diabetes trials” presented at an U.S. Food and Drug Administration workshop. Silver Spring. August 17, 2017.
 82. **Schmidt S**. “Challenges & opportunities of drug-disease models for post-menopausal osteoporosis”. FU Berlin, July 6, 2017.
 83. **Schmidt S**. “Applied Pharmacometrics - What's In It For Me?” FU Berlin, July 5, 2017.
 84. **Schmidt S**. “Exploration of PK/PD in NDA enabling or early proof of concept studies: an academic perspective” presented at the DIA meeting, Chicago, June 19, 2017.
 85. **Schmidt S**. “What quantitative clinical pharmacology & life taught me about drugs” presented at the 11th Global Gator Symposium, Düsseldorf, June 17, 2017.
 86. **Schmidt S**. “Quantitative and systems pharmacology – what’s in it for me?” presented at Roche, Basel, June 14, 2017.
 87. **Schmidt S**. “How informative are drug-drug interactions of gene-drug interactions?” presented as webinar for the American College of Clinical Pharmacology (ACCP), March 1, 2017.
 88. **Schmidt S**. “How quantitative and systems pharmacology can bring value to R&D and ultimately to the patient” presented at the University of Central Florida, Orlando. February 13, 2017
 89. **Schmidt S**. “Application of sensitivity analysis in evaluation of systems pharmacology models”, presented at the Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), Denver, November 17, 2016.

90. **Schmidt S.** “Pharmacogenomics: assessment of therapeutic risk vs. benefit”, presented at the Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), Denver, November 15, 2016.
91. **Schmidt S.** “How Quantitative and Systems Pharmacology Can Bring Value to R&D”, presented at Sanofi-Aventis, Bridgewater, NJ, April 14, 2016.
92. **Schmidt S.** “Modeling and Simulation as Applied to drug Development and Regulatory Decision Making”, presented at the University of Central Florida Translational Science seminar, Orlando, April 11, 2016.
93. **Schmidt S.** “Development of a Drug-Disease Model for Postmenopausal Osteoporosis”, presented at the JSCPT/ISOP meeting in Tokyo, Japan, December 9, 2015.
94. **Schmidt S.** “Drug-Disease Modeling Applied to Drug Development and Regulatory Decision Making in the Type 2 Diabetes Mellitus Arena”, presented at the Keio University/PMDA workshop, Tokyo, Japan, December 8, 2015.
95. **Schmidt S.** “The Application of Quantitative Clinical Pharmacology Tools in Drug Development and Regulatory Decision Making: a Value Added Proposition”, Eli Lilly, Indianapolis, November 11, 2015.
96. **Schmidt S.** “Quantitative Systems Pharmacology: How Complex Do We Want/Need to Be?” QSP Special Interest Group Tutorial at ACoP sponsored by ISoP, Crystal City, October 7, 2015.
97. **Schmidt S.** “Mechanism-Based Drug-Disease Modeling Applied to Drug Development and Regulatory Decision Making”, 10th International Congress of Pharmaceutical Sciences, Ribeirão Preto, Brazil, September 8, 2015.
98. Lesko LJ, Biliouris K, Samant T, Combes F, Fang L, **Schmidt S.** Poster. A Model- and Systems-Based Approach to Efficacy and Safety Questions Related to Generic Substitution. FDA Science Day. Washington D.C. May 27, 2015.
99. **Schmidt S.** “How Quantitative Clinical Pharmacology Can Bring Value to the Patient”, Translational Science Research Seminar Series at Nemours Children’s Hospital, Orlando, March 9, 2015.
100. **Schmidt S.** “Physiologically-based modeling in translational research”, VI PPGCF UFRGS Meeting, Porto Alegre, November 21, 2014.
101. Samant S, Jiang XL, Horenstein RB, Shuldiner AR, Yerges-Armstrong LM, Zheng S, Trame MN, Lesko LJ, **Schmidt S.** “A semi-physiological population pharmacokinetic/pharmacodynamic model for the development of a bedside-ready dosing algorithm of clopidogrel”, ASCPT, Atlanta, March 22, 2014.
102. Jiang XL, Zhao P, Barrett JA, Lesko LJ, **Schmidt S.** „Application of physiologically-based pharmacokinetic modeling to predict acetaminophen metabolism & pharmacokinetics in children“, ASCPT, Atlanta, March 21, 2014. ****ASCPT Encore abstract**
103. **Schmidt S.** “How systems pharmacology can bring value to the patient” presented at the Universidade Federal do Rio Grande do Sul, Porto Alegre, December 10, 2013.
104. Jiang XL, Zhao P, Lesko LJ, **Schmidt S.** “Application of physiologically-based pharmacokinetic (PBPk) model in predicting drug metabolism and pharmacokinetics in pediatric populations – a case study of acetaminophen” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Indianapolis, IN, March 5-9, 2013. ****ASCPT Presidential Fellow Award presentation**
105. **Schmidt S.** Seminar. Chances and limitations of model-based drug development. Amgen. Seattle. Nov 2, 2012.

106. **Schmidt S.** “Pharmakokinetik beim Intensivpatienten: Brauchen wir individuelle Dosierungen?” presented at the 23. Jahrestagung der Paul-Ehrlich-Gesellschaft für Chemotherapie e.V. (PEG), Dresden, October 12, 2012.
107. **Schmidt S.** “Mechanism-based analysis of disease systems: principle and application to post-menopausal osteoporosis” presented at the 1^o Congresso da Associação Brasileira de Ciências Farmacêuticas, Ipojuca, October 7, 2012.
108. Jiang XL, Zhao P, Lesko LJ, **Schmidt S.** Poster. Development of a physiologically-based pharmacokinetic (PBPK) model for acetaminophen by integrating clinical pharmacokinetic and in vitro enzyme kinetic data. U.S. Food and Drug Administration. Silver Springs. Sep 7, 2012. Office of Clinical Pharmacology Science Day Poster Award
109. **Schmidt S.** Seminar. Mechanism-based analysis of disease systems: principle and application to post-menopausal osteoporosis. Daiichi Sankyo. Parsippany, NJ. Aug 21, 2012.
110. **Schmidt S.** Seminar. Mechanism-based analysis of disease systems: principle and application to post-menopausal osteoporosis. Merck. Elkton, VA. Aug 20, 2012.
111. **Schmidt S.** Seminar. Pharmacometrics & systems pharmacology: how the center will bring value to patients. National Advisory Board (NAB) of the College of Pharmacy Meeting. Orlando. Apr 13, 2012.
112. **Schmidt S.** Seminar. Pharmacometrics & systems pharmacology: how the center will bring value to patients. Nemours Research Strategy Retreat. Delaware. Mar 5, 2012
113. **Schmidt S.** Seminar. Mechanism-based analysis of disease systems: principle and application to post-menopausal osteoporosis. U.S. Food and Drug Administration. Silver Springs. Feb 22, 2012.
114. **Schmidt S.** “Mechanism-based PKPD modeling: principle and applications” Keynote speaker at the 10th Congress of the European Association for Clinical Pharmacology and Therapeutics (EACPT), Budapest, June 28, 2011.
115. **Schmidt S.** “Coping with time scales in disease systems analysis: application to bone remodeling” presented at the 20th meeting of the population approach group in Europe (PAGE), June 10, 2011.
116. **Schmidt S.** “Microdialysis: a valuable tool for identifying clinically relevant PK/PD relationships” presented at the 13th International Conference for in vivo Methods: Monitoring Molecules in Neuroscience, Brussels, September 16, 2010.
117. **Schmidt S.** “Potency of RWJ-416457 against MRSA compared to Linezolid” presented at the annual meeting of the International Society of Anti-Infective Pharmacology (ISAP), Chicago, IL, September 20, 2007.
118. **Schmidt S.** “Linezolid against MRSA – A new *in vitro* Model” presented at the Annual Infectious Disease Fellowship Forum, Park City, UT, June 24 – 27, 2007 & Genentech Podium Presentation, San Francisco, CA, September 9, 2007.
119. **Schmidt S.** “PK/PD modeling of Linezolid against MRSA” presented at the 17th annual meeting of the European Society of Clinical Microbiology and Infectious Diseases (ECCMID), Munich, March 31 – April 3, 2007.
120. **Schmidt S.** “PK/PD challenges of *in vitro* time-kill curves – a new modeling approach” presented at the annual meeting of the International Society of Anti-Infective Pharmacology (ISAP), San Francisco, CA, September 30, 2006.
121. **Schmidt S.** “Experimental pitfalls in protein binding measurements” presented at the Annual Infectious Disease Fellowship Forum, Brainerd, MN, June 8-11, 2006.
122. **Schmidt S.** “Effect of protein binding on the efficacy of ceftriaxone” presented at the Annual Infectious Disease Fellowship Forum, Charleston, SC, May 25, 2005.

List of Papers Presented at Scientific Meetings:

1. Lingineni K, Farhan N, Kim S, Gordon L, Penzak S, Hadigan C, George JM, **Schmidt S**. Poster Title: “Quantitative benefit-risk assessment of P-gp mediated drug-drug interactions of dabi-gatran co-administered with pharmacokinetic enhancers in patients with renal impairment”, University of Florida, 2020.
2. Lingineni K, Morales JF, Conrado D, Corey D, Hill M, Vong C, Burton J, Larkindale J, Romero K, **Schmidt S**, Kim S. Towards Achieving Regulatory Endorsement of a Disease Progression Model-based Clinical Trial Simulation Tool for Duchenne Muscular Dys-trophy– Models of Progression of Timed Motor Function Tests. ACoP Virtual meeting. Nov 10-12, 2020. ****Student abstract award.**
3. Lingineni K, Cicali B, Chaturvedula A, Cristofolletti R, Wendl T, Hoechel J, Wiesinger H, Vozmediano V, Zhao P, **Schmidt S**. Quantitative Evaluation of Levonorgestrel Efficacy in Drug-Drug Interaction (DDI) Scenarios in Healthy and Obese Women: Applications of Inte-grated Physiologically-based Pharmacokinetic (PBPK) Modeling & Model Based Meta Analy-sis (MBMA). ACCP Virtual meeting. Sep 11-14, 2020. **** Students abstract award & Wayne A. Colburn Memorial Award Winner.**
4. Lingineni K, Conrado DJ, Corey D, Hill M, Larkindale J, Romero K, **Schmidt S**, Kim S. Towards Achieving Regulatory Endorsement of a Disease Progression Model-based Clinical Trial Simu-lation Tool for Duchenne Muscular Dystrophy– Model of Progression of Forced Vital Capacity. Houston. Mar 20-23, 2020. **** Presidential Trainee award & Jason Morrow award.**
5. Lingineni K., Conrado D., Corey D., Hill M., Larkindale J., Romero K., **Schmidt S.**, Kim S. *Poster*. “Towards Achieving Regulatory Endorsement of a Disease Progression Model-based Clinical Trial Simulation Tool for Duchenne Muscular Dystrophy “An Exemplar using Clinical Data from the North Star Ambulatory Assessment” presented at Annual Meeting of the American Conference on Pharmacometrics (ACoP), Orlando, FL, October 20-23, 2019.
6. Klopp-Schulze L., Mueller-Schoel A., Joerger M., Neven P., Koolen SLW., Mathijssen RHJ., **Schmidt S.**, Kloft C. *Poster*. “At the interface of physiologically-based and nonlinear mixed-effects modelling: Enhancing the quantitative understanding of the complex pharmacokinetics and –genetics of tamoxifen and its major metabolites” presented at Annual Meeting of the American Conference on Pharmacometrics (ACoP), Orlando, FL, October 20-23, 2019.
7. Lingineni K., Farhan N., Kim S., Penzak S., Hadigan C., George JM., **Schmidt S**. *Poster*. “Quantitative Benefit-Risk Assessment of P-gp mediated Drug-Drug Interactions (DDIs) of Dabigatran Co-administered with Pharmacokinetic Enhancers in Patients with Renal Impairment” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), Chicago, IL September 15-17, 2019.
8. Cicali B., **Schmidt S.**, Brown JD. *Poster*. “Novel Application of Pharmacoevidence for the Examination of Possible Pharmacokinetic/Pharmacodynamic Mechanisms of Macrolide Antibiotic Resistance” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), Chicago, IL September 15-17, 2019.
9. Lien YT., Lam E., Vozmediano V., Rochani A., Kaushal G., Tanjuako J., Thoma BN., Hirose H., Kraft WK., **Schmidt S**. *Poster*. “Ketamine Population Pharmacokinetics in Critically Ill Patients on Extracorporeal Membrane Oxygenation Therapy” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), Chicago, IL September 15-17, 2019.
10. **Schmidt S**, Cicali B, Kirouac D. *Poster*. “Developing a QSP Model Repository for CPT-PSP: Challenges and Future Opportunities “presented at The American Society for Clinical Pharmacology and Therapeutics, Washington, DC, March 13-14, 2019.

11. **Schmidt S**, Badee J, Qiu N, Parrott N, Fowler S. *Poster*. “Optimization of experimental conditions of automated glucuronidation assays in human liver microsomes using a cocktail approach and high-performance liquid chromatography-tandem mass spectrometry” presented at 2019 Hot Topics in the Lab, one-day Drug Metabolism Discussion Group meeting, UK, March 7, 2019.
12. **Schmidt S**, Cicali B, Collin AJ, Vega A, Raghunandan S. *Poster*. “Bridging the Gap of Macrolide Resistance Mechanisms and Clinical Application through PK/PD Modeling and Pharmacovigilance Analyses” *presented at the University of Florida COP*, Gainesville, FL, February 11, 2019.
13. **Schmidt S**, Farhan N, Basu S, Kim S, Lingineni K, Vozmediano V, Ait-Oudhia S, Fang L, Zhao L, Lesko L. *Poster*. “Application of Physiologically-Based Oral Absorption & Pharmacokinetic Modeling to Investigate Formulation Factors Influencing the Pharmacokinetics of Novel Oral Anticoagulants” presented at the University of Florida COP, Gainesville, FL, February 11, 2019.
14. **Schmidt S**, Lien YT, Madrasi K, Samant S, Kim M, Li F, Li L. *Poster*. “Quantification of postmenopausal osteoporosis population: An system pharmacology approach using bisphosphonates” presented at the University of Florida COP, Gainesville, FL, February 11, 2019.
15. **Schmidt S**, Jiang S, Farhan N, Vozmediano V. *Poster*. “Population parent-metabolite pharmacokinetic modeling of acetaminophen protein adducts, a biomarker of acetaminophen induced hepatotoxicity” presented at the University of Florida. Gainesville, FL, February 11, 2019
16. **Schmidt S**, Jiang S, Farhan N, Vozmediano V. *Poster*. “Updated physiologically based pharmacokinetic (PBPK) model for acetaminophen metabolism with an emphasis on phase I metabolism” presented at the American Association of Pharmaceutical Scientists, Washington, DC. November 5, 2018.
17. **Schmidt S**, Cicali B, Collin AJ, Vega A, Raghunandan S. *Poster*. “Bridging the Gap of Macrolide Resistance Mechanisms and Clinical Application through PK/PD Modeling and Pharmacovigilance Analyses” presented at the American Conference on Pharmacometrics, San Diego, CA. October 10, 2018.
18. **Schmidt S**, Farhan N, Basu S, Kim S, Lingineni K, Vozmediano V, Ait-Oudhia S, Fang L, Lesko L. *Poster*. “Application of Physiologically-Based Oral Absorption & Pharmacokinetic Modeling to Investigate Formulation Factors Influencing the Pharmacokinetics of Novel Oral Anticoagulants” presented at the American Conference on Pharmacometrics, San Diego, CA. October 10, 2018.
19. **Schmidt S**, Jiang S, Jin JY, Deng R. *Poster*. “Practical identifiability analysis and pharmacokinetic sampling optimization for monoclonal antibodies with nonlinear pharmacokinetics in first-in-human studies” presented at the American Conference on Pharmacometrics, San Diego, CA. October 10, 2018.
20. **Schmidt S**, Hajihosseini A, Maleki F, Lien YT, Vozmediano V. *Poster*. “The Effect of Monoclonal Antibodies Pharmacokinetics on the Tumor Cells Dynamics: A Bifurcation Analysis” presented at the American Conference on Pharmacometrics, San Diego, CA. October 8, 2018.
21. **Schmidt S**, Lien YT, Madrasi K, Samant S, Kim M, Li F, Li L. *Poster*. “Quantification of postmenopausal osteoporosis population: An system pharmacology approach using bisphosphonates” presented at the Globalization of Pharmaceuticals Education Network, Singapore, September 27-28, 2018
22. Badee J, Qiu N, Collier AC, Takahashi RH, Forrest W, Schmidt S, Parrott N, Fowler S. *Poster and Presentation*. “Characterization of the Ontogeny of Hepatic UGT Enzymes Based on Glucuronidation Activity Measured in Human Liver Microsomes” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP),

- Bethesda, September 23-25, 2018. **ACCP Student and Trainee Award and Colburn Memorial Award.
23. **Schmidt S**, Jiang S, Vozmediano V, James L, Rahman S. *Poster*. "Population parent-metabolite pharmacokinetic modeling of acetaminophen protein adducts, a biomarker of acetaminophen induced hepatotoxicity" presented at the American College of Clinical Pharmacology, Bethesda, MD, September 23, 2018.
 24. **Schmidt S**, Badee J, Qiu N, Parrott N, Fowler S. *Poster*. "Optimization of experimental conditions of automated glucuronidation assays in human liver microsomes using a cocktail approach and ultra-high performance liquid chromatography-tandem mass spectrometry" presented at the Gordon Research Conference, Holderness, July 8-13, 2018.
 25. De Miranda Silva C, Mangal N, Michaud V, Turgeon J, Lesko LJ, **Schmidt S**. *Poster*. "Predicting the impact of CYP2D6/UGT2B7 Gene-drug and CYP mediated Drug-drug interactions on oxycodone and oxymorphone pharmacokinetics" presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Orlando, March 21, 2018.
 26. Berkovitz SD, Fox KA, **Schmidt S**, Weitz JI, Garmann D, Kubitza D, Mueck W, Peters G, Reinecke I, Solms A, Spiro TE, Yan X, Zhang L, Willmann S. *Poster*. "The effects of rivaroxaban exposure and clinical risk factors on efficacy and safety outcomes in the prevention of venous thromboembolism after elective hip or knee replacement surgery" presented at the Annual Meeting of the American Society of Hematology (ASH), Atlanta, December 11, 2017.
 27. Berkovitz SD, Weitz JI, **Schmidt S**, Fox KA, Garmann D, Kubitza D, Mueck W, Peters G, Reinecke I, Solms A, Spiro TE, Yan X, Zhang L, Willmann S. *Poster*. "The effects of rivaroxaban exposure and clinical risk factors on efficacy and safety outcomes in patients treated for venous thromboembolism" presented at the Annual Meeting of the American Society of Hematology (ASH), Atlanta, December 9, 2017.
 28. Yan X, Peters G, Sharma A, Nandy P, Nessel C, Garmann D, Willmann S, Hermanowski-Vosatka A, Solms A, Berkowitz SD, Spiro TE, Fox KE, Weitz JI, **Schmidt S**, Piccini JP, Patel M, Becker RC, Zhang L. *Poster*. "The effect of rivaroxaban exposure and clinical risk factors on efficacy and safety outcomes in patients with nonvalvular atrial fibrillation" presented at the Annual Meeting of the American Society of Hematology (ASH), Atlanta, December 9, 2017.
 29. Kim S, Lingineni K, Meng A, Sharma VD, Miller R, Trame MN, Brown JD, Fang L, Lesko LJ, **Schmidt S**. *Poster*. "A model and systems based approach to safety and efficacy questions related to generic substitution – a novel oral anticoagulants case study" presented at the Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), San Diego, November 13, 2017.
 30. Mehta H, Bernstein G, He J, Oldenhof J, Mills C, Milova D, Setnik, B, **Schmidt S**, Nasrat H, Dick C. *Poster*. "Insights from structural model delineate PK associated with abuse potential following intranasal administration in recreational drug users" presented at the Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), San Diego, November 15, 2017 & at the American Conference on Pharmacometrics (ACoP), Fort Lauderdale, October 17, 2017.
 31. Lien YT, Madras K, Samant S, Kim MJ, Li F, **Schmidt S**. *Poster and Presentation*. "Quantification of postmenopausal osteoporosis population: a systems pharmacology approach using bisphosphonates" presented at the Annual Meeting of the American Conference on Pharmacometrics (ACoP), Fort Lauderdale, October 17, 2017.
- **Quality Trainee Abstract Award**
32. De Miranda Silva C, Vozmediano Esteban V, Nakatani Y, Mangal N, Basu S, Samant T, Yang H, Michaud V, Turgeon J, Lesko LJ, **Schmidt S**. *Poster*. "Development of a

- physiologically based pharmacokinetic model for oxycodone“ presented at the Annual Meeting of the American Conference on Pharmacometrics (ACoP), Fort Lauderdale, October 17, 2017.
33. Schmulenson E, Schlender JF, Frechen S, **Schmidt S**, Jaehde U. *Poster*. “Systemic pharmacotherapy support during chronic kidney disease using a novel conceptual framework“ presented at the Annual Meeting of the American Conference on Pharmacometrics (ACoP), Fort Lauderdale, October 17, 2017.
 34. Yan X, Peters G, Garmann D, Willmann S, Hermanowski-Vosatka A, Nandy P, Solms A, Berkowitz SD, Spiro T, Fox KA, Weitz JI, **Schmidt S**, Zhang L. *Poster*. “The effect of rivaroxaban exposure and clinical risk factors on efficacy and safety outcomes in patients with acute coronary syndromes” presented at the Annual Meeting of the American Conference on Pharmacometrics (ACoP), Fort Lauderdale, October 17, 2017.
 35. Lien Y, Sharma V, Basu S, Yang H, Wang W, Zhou H, Bihorel S, **Schmidt S**. *Poster*. “A novel interactive quantitative clinical pharmacology approach applied to biomarker identification in oncology” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), San Diego, September 17, 2017.
 36. Basu S, Samant T, Trescot A, Palmer M, Cavallari L, Lesko LJ, **Schmidt S**. *Poster*. “Development and application of a PBPK model for prediction of the drug-drug interaction (DDI) and gene-drug interaction (GDI) of oxycodone and CYP perpetrators” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Washington, March 16, 2017.
 37. Lien Y, Sharma V, Basu S, Yang H, Wang W, Zhou H, Ait-Oudhia S, **Schmidt S**. *Poster*. “The quest for biomarkers in oncology: an opportunity for quantitative clinical pharmacology approaches” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Washington, March 16, 2017.
 38. Basu, S, Yang H, Fang L, Sales MG, Zhao, L, Trame MN, Lesko LJ, **Schmidt S**. *Poster*. “Physiologically based absorption modeling as a tool to evaluate the bioequivalence of metoprolol ER products” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Washington, March 16, 2017.
 39. Arwood MJ, Deng J, Drozda, Pugach O, Nutescu EA, **Schmidt S**, Duarte JD, Cavallari LH. *Poster*. “Clinical implementation of warfarin pharmacogenetics in a real-world setting: a proposal for a new pharmacogenetic dosing approach for diverse patient populations” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Washington, March 15, 2017. ****ASCPT Presidential Fellow Award**
 40. Sharma VD, Trame MN, **Schmidt S**, Fang L, Lesko LJ. *Poster*. “Development of a pharmacokinetic (PK)/pharmacodynamic (PD) model to evaluate the impact of variation in bioavailability on PD for extended release metoprolol formulations” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Washington, March 15, 2017. ****ASCPT Presidential Fellow Award**
 41. De Miranda Silva C, Rocha A, Tozatto E, da Silva LM, Donadi EA, Lanchote VL, **Schmidt S**, Bulitta JB. *Poster*. “Modeling acute pain decrease based on in vitro COX-2 inhibition via an enantioselective systems pharmacology approach for etodolac” presented at the Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), Denver, November 14, 2016.
 42. Hurtado FK, Garhyan P, Chien JY, **Schmidt S**. *Poster*. “Predicting end-of-trial fasting glucose and HbA_{1c} via mechanistic PK/PD modeling based on longitudinal Type 2 Diabetes trial data” presented at Annual Meeting of the American Conference on Pharmacometrics (ACoP), Arlington, October 24, 2016.

43. Zheng S, Krasniqi S, Matzneller P, Zeitlinger M, Bulitta JB, **Schmidt S**. *Poster*. “Development of an integrated population pharmacokinetic model characterizing the tissue distribution of azithromycin and erythromycin in healthy subjects” presented at Annual Meeting of the American Conference on Pharmacometrics (ACoP), Arlington, October 24, 2016.
44. Deng J, Arwood MA, Duarte J, Cavallari L, **Schmidt S**. *Poster*. “Development of a universal pharmacogenetics-guided warfarin dosing nomogram” presented at Annual Meeting of the American Conference on Pharmacometrics (ACoP), Arlington, October 24, 2016.
45. Basu S, Niederalt C, Yang H, Lien YT, Eissing T, **Schmidt S**. *Poster*. “Development and qualification of a pediatric PBPK model for biologics in PK-Sim®” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), Bethesda, September 25, 2016. ****ACCP Student and Trainee Award**
46. Mangal N, Hamadeh I, Samant T, Langaee T, Cavallari L, Johnson J, Bulitta JB, **Schmidt S**. *Poster*. “Development of a CYP2C19 genotype-directed dosing algorithm for voriconazole” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), Bethesda, September 25, 2016. ****ACCP Student and Trainee Award**
47. Madrasi K, Samant S, Kim MJ, Li F, Voss S, Kehoe T, **Schmidt S**, Li L. *Presentation*. “Development of a mechanism-based drug-disease model to quantify postmenopausal osteoporosis” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), San Diego, March 12, 2016.
48. Samant TS, **Schmidt S**, Trescot A, Norton S, Palmer M, Lesko LJ. *Poster*. “Pharmacogenetics guided physiologically-based pharmacokinetic (PBPK) modeling of oxycodone and its metabolites for chronic pain management (CPM)” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), San Diego, March 10, 2016.
49. Hurtado FK, Gaitonde P, Garrhyan P, Chien JY, **Schmidt S**. *Poster*. “Development of a mechanism-based drug-disease modeling platform for Type 2 Diabetes Mellitus”. presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), San Diego, March 10, 2016.
50. **Schmidt S**. *Lecture*. Development of a drug-disease model for postmenopausal osteoporosis. JSCPT/ISoP. Tokyo, Japan. Dec 9, 2015.
51. **Schmidt S**. *Workshop*. Drug-disease modeling applied to drug development and regulatory decision making in the Type 2 Diabetes Mellitus arena. Keio University/PMDA. Tokyo, Japan. Dec 8, 2015.
52. Schlender JF, Samant TS, Meyer M, Thelen K, Willmann S, Eissing T, **Schmidt S**, Jaehde U. *Poster*. “Impact of aging on bioavailability and multiple enzymatic elimination pathways using a lifespan physiologically-based pharmacokinetic (PBPK) approach” presented at the Annual Meeting of the American Association of Pharmaceutical Scientists (AAPS), October 28, 2015.
53. Lagishetty CV, Samant TS, Ge L, Trame MN, Natarajan K, Yuan J, Torrente JM, Lesko LJ, **Schmidt S**. “Pharmacokinetic and pharmacodynamic drug interaction between fibanserin and fluconazole” presented at the 20th North American Meeting of the International Society for the Study Xenobiotics (ISSX), October 21, 2015.
54. Mangal N, Shroads A, Langaee T, Stacpooles P, **Schmidt S**. “Model guided dose optimization of dichloracetate for the treatment of congenital lactic acidosis” presented at the 20th North American Meeting of the International Society for the Study Xenobiotics (ISSX), October 21, 2015.

55. **Schmidt S.** Symposium. Quantitative systems pharmacology: how complex do we want/need to be? QSP Special Interest Group Tutorial at ACoP sponsored by ISoP. Crystal City. Oct 7, 2015.
56. Samant S, Jiang XL, Horenstein RB, Shuldiner AR, Yerges-Armstrong LM, Peletier LA, Lesko LJ, **Schmidt S.** “A Physiologically-Based Pharmacokinetic/Pharmacodynamic Model for Evaluating Clinically Important Drug-Drug Interactions and Genetic Polymorphisms: A Clopidogrel Case Study” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), San Francisco, September 27-29, 2015. ****ACCP Student and Trainee Award**
57. Deng J, Lagishetty C, Lesko LJ, Rogers H, Pacanowski M, **Schmidt S.** “Can Drug-Drug Interactions Be Used to Inform Gene-Drug Interactions and *Vice Versa*?” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), San Francisco, September 27-29, 2015. ****ACCP Student and Trainee Award**
58. Biliouris K, Trame MN, **Schmidt S**, Fang L, Lesko LJ. “Integrated Data Mining and Systems Pharmacology to Explore the Comparative Safety of Brand-Name and Generic Drugs.” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), San Francisco, September 28, 2015.
59. Lesko LJ, Biliouris K, Samant T, Combes F, Fang L, **Schmidt S**, Trame MN. “A Model- and Systems-Based Approach to Efficacy and Safety Questions Related to Generic Substitution.” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), San Francisco, September 28, 2015.
60. Samant TS, **Schmidt S**, Fang L, Trame MN, Lesko LJ. „Use of Physiologically Based Pharmacokinetic Modeling as a Computational and Mathematical Tool to Evaluate Switchability of Generic and Brand Name Products.” presented at the Annual Meeting of the American College of Clinical Pharmacology (ACCP), San Francisco, September 28, 2015.
61. **Schmidt S.** Lecture. Mechanism-based drug-disease modeling applied to drug development and regulatory decision making. 10th International Congress of Pharmaceutical Sciences. Ribeirão Preto, Brazil. Sep 8, 2015.
62. Biliouris K, Trame MN, **Schmidt S**, Fang L, Lesko LJ. “Integrated Data Mining and Systems Pharmacology to Explore the Comparative Safety of Brand-Name and Generic Drugs.” presented at the Annual meeting of the population approach group in Europe (PAGE), Abstract 3430, June 2015, Hersonissos, Crete
63. Lesko LJ, Biliouris K, Samant T, Combes F, Fang L, **Schmidt S**, Trame MN. “A Model- and Systems-Based Approach to Efficacy and Safety Questions Related to Generic Substitution.” presented at the FDA Science Day, Washington DC, March 2015.
64. Lagishetty C, Deng J, Lesko LJ, Rogers H, **Schmidt S.** “How informative are drug-drug interactions of gene-drug interactions and vice versa?” presented at the presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), New Orleans, March 6, 2015. ****Late Breaker Abstract**
65. Samant TS, Lukacova V, Lesko LJ, **Schmidt S.** “Characterizing the changes in drug clearance from neonates to adults by physiologically based pharmacokinetic modeling using GastroPlus” presented at the presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), New Orleans, March 5, 2015.
66. Gaitonde P, Garhyan P, Chien JY, **Schmidt S.** “Drug-systems disease model to predict treatment outcome in Type 2 Diabetes Mellitus” presented at the presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), New Orleans, March 5, 2015.

67. Samant S, Jiang XL, Horenstein RB, Shuldiner AR, Yerges-Armstrong LM, Peletier LA, Zhang X, Trame MN, Lesko LJ, **Schmidt S**. “Using Innovative Computational Tools to Identify Clinically Important Drivers of Variability in Clopidogrel Antiplatelet Therapy” presented at the presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), New Orleans, March 5, 2015.
68. **Schmidt S**. Lecture. Physiologically-based modeling in translational research. VI PPGCF UFRGS. Porto Alegre, Brazil. Nov 21, 2014 - Nov 21, 2014.
69. Zheng S, Gaitonde P, Andrew MA, Gibbs MA, Lesko LJ, **Schmidt S**. Poster. Model-based comparison of monoclonal antibody dosing strategies for application in children. Institute for Child Health Policy (ICHP). Gainesville. Nov 4, 2014. **Encore abstract at ASCPT 2015**
70. Samant T, Lukacova V, Lesko LJ, **Schmidt S**. “Enzyme focused PBPK modelling in adults for candidate drugs using GastroPlus” presented at the 5th American Conference on Pharmacometrics, Las Vegas, October 15, 2014.
71. Gaitonde P, Biliouris K, Norris D, Nestorov I, **Schmidt S**, Rogge M, Lesko LJ, Trame MN. “Development of a non-human primate, semi-mechanistic pharmacokinetic model for pediatric phase I predictions for the treatment of spinal muscular atrophy” presented at the 5th American Conference on Pharmacometrics, Las Vegas, October 15, 2014.
72. Mangal N, Samant T, Hamadeh I, Johnson J, Langaee T, **Schmidt S**. “Development of a CYP2C19 genotype guided dosing algorithm for voriconazole” presented at the 5th American Conference on Pharmacometrics, Las Vegas, October 14, 2014.
73. Zheng S, Gaitonde P, Andrew MA, Gibbs MA, Lesko LJ, **Schmidt S**. “Model-based comparison of monoclonal antibody dosing strategies for application in children” presented at the 5th American Conference on Pharmacometrics, Las Vegas, October 13, 2014. ****Encore abstract at ASCPT 2015**
74. Samant S, Jiang XL, Horenstein RB, Shuldiner AR, Yerges-Armstrong LM, Peletier LA, Zhang X, Trame MN, Lesko LJ, **Schmidt S**. “Using innovative tools for personalizing antiplatelet therapy” presented at the 5th American Conference on Pharmacometrics, Las Vegas, October 13, 2014.
75. Gaitonde P, Trame MN, Garhyan P, Chien JY, **Schmidt S**. “Development of a Drug-Systems-Disease Model for Type 2 Diabetes Mellitus” presented at the 43rd Annual Meeting of the American College of Clinical Pharmacology (ACCP), Atlanta, September 16, 2014. ****ACCP Student and Trainee Award**
76. Somani AA, Thelen K, Zheng S, Trame MN, Coboeken K, Meyer M, Schnizler K, Ince I, Willmann S, **Schmidt S**. “Evaluation of changes in oral drug absorption in preterm neonates” presented at the 43rd Annual Meeting of the American College of Clinical Pharmacology (ACCP), Atlanta, September 14, 2014. ****ACCP Student and Trainee Award**
77. Jiang XL, Horenstein RB, Shuldiner AR, Yerges-Armstrong LM, Peletier LA, Trame MN, Lesko LJ, “**Schmidt S**. Development of a Bedside-Ready Dosing Algorithm for Clopidogrel”, Atlanta, September 14, 2014.
78. Somani AA, Thelen K, Zheng S, Trame MN, Coboeken K, Meyer M, Schnizler K, Ince I, Willmann S, **Schmidt S**. “Evaluation of changes in oral drug absorption in preterm neonates for Biopharmaceutics Classification System (BCS) class I and II compounds” presented at the 23rd meeting of the population approach group in Europe (PAGE), Alicante, June 12, 2014.
79. Zheng S, Matzneller P, Zeitlinger M, Lesko LJ, **Schmidt S**. “Development of a population pharmacokinetic model characterizing the tissue distribution of azithromycin in healthy subjects” presented at the 24th annual meeting of the

- European Society of Clinical Microbiology and Infectious Diseases (ECCMID), Barcelona, May 12, 2014.
80. Samant S, Jiang XL, Horenstein RB, Shuldiner AR, Yerges-Armstrong LM, Zheng S, Trame MN, **Schmidt S**. Paper. A semi-physiological population pharmacokinetic/pharmacodynamic model for the development of a bedside-ready dosing algorithm of clopidogrel. American Society for Clinical Pharmacology and Therapeutics. Atlanta. Mar 22, 2014.
 81. **Schmidt S**. Symposium. Challenges and opportunities for physiologically-based pharmacokinetic (PBPK) modeling in pediatric drug development. American Society for Clinical Pharmacology and Therapeutics (ASCPT). Atlanta. Mar 21, 2014.
 82. Jiang XL, Zhao P, Barrett JA, Lesko LJ, **Schmidt S**. Paper. Application of physiologically-based pharmacokinetic modeling to predict acetaminophen metabolism & pharmacokinetics in children. American Society for Clinical Pharmacology and Therapeutics (ASCPT). Atlanta. Mar 21, 2014. ASCPT Encore Abstract
 83. Gaitonde P, Trame MN, Syvanen S, Lesko LJ, **Schmidt S**. “Mechanism-based evaluation of codeine toxicity in children” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Atlanta, March 20, 2014.
 84. **Schmidt S**. Lecture. How systems pharmacology can bring value to the patient. Universidade Federal do Rio Grande do Sul. Porto Alegre, Brazil. Dec 10, 2013
 85. Jiang XL, Horenstein RB, Shuldiner AR, Yerges-Armstrong LM, Samant S, Lesko LJ, **Schmidt S**. “Development of a minimal physiologically-based pharmacokinetic and pharmacodynamics model for characterizing the impact of genetic and demographic factors on clopidogrel treatment response in healthy adults” presented at the 42nd Annual Meeting of the American College of Clinical Pharmacology (ACCP), Bethesda, September 23, 2013. ****ACCP Student and Trainee Award, New Member Abstract Award**
 86. Zheng S, Matzneller P, Zeitlinger M, Lesko LJ, **Schmidt S**. “Development of a tissue distribution population pharmacokinetic model for azithromycin” presented at the 42nd Annual Meeting of the American College of Clinical Pharmacology (ACCP), Bethesda, September 23, 2013. ****ACCP Student and Trainee Award**
 87. Jiang XL, Zhao P, Lesko LJ, **Schmidt S**. “Mechanistic prediction of acetaminophen metabolism and pharmacokinetics in children using a physiologically-based pharmacokinetic (PBPK) modeling approach” presented at the 22nd meeting of the population approach group in Europe (PAGE), Glasgow, June 12, 2013.
 88. Jiang XL, Horenstein RB, Shuldiner AR, Yerges-Armstrong LM, Samant S, Lesko LJ, **Schmidt S**. “A CYP2C19 genotype-directed population pharmacokinetic and pharmacodynamic analysis of clopidogrel in healthy adults” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Indianapolis, March 8, 2013. ****Encore abstract at ASCPT 2014**
 89. Jiang XL, Zhao P, Lesko LJ, **Schmidt S**. “Application of physiologically-based pharmacokinetic (PBPK) model in predicting drug metabolism and pharmacokinetics in pediatric populations – a case study of acetaminophen” presented at the Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics (ASCPT), Indianapolis, March 5-9, 2013. ****ASCPT Presidential Fellow Award**
 90. **Schmidt S**. Lecture. Pharmakokinetik beim Intensivpatienten: Brauchen wir individuelle Dosierungen? 23. Jahrestagung der Paul-Ehrlich-Gesellschaft für Chemotherapie e.V. (PEG). Dresden, Germany. Oct 12, 2012.
 91. **Schmidt S**. Lecture. Mechanism-based analysis of disease systems: principle and application to post-menopausal osteoporosis. 10 Congresso da Associação Brasileira de Ciências Farmacêuticas. Ipojuca, Brazil. Oct 7, 2012.

92. Jiang XL, Zhao P, Lesko LJ, **Schmidt S**. “Development of a physiologically-based pharmacokinetic (PBPK) model of acetaminophen by integrating clinical pharmacokinetic and in vitro enzyme kinetic data” presented at the U.S. Food and Drug Administration’s Science Day, Silver Springs, September 7, 2012. ****FDA Office of Clinical Pharmacology Science Day Poster Award**
93. **Schmidt S**, Post TM, Peletier LA, Boroujerdi MA, Danhof M. “Mathematical model reduction: an innovative tool for analyzing complex dynamic systems” presented at the 40th Annual Meeting of the American College of Clinical Pharmacology (ACCP), Chicago, September 12, 2011. ****ACCP Student and Trainee Award**
94. **Schmidt S**. Keynote. Mechanism-based PKPD modeling: principle and applications. 10th Congress of the European Association for Clinical Pharmacology and Therapeutics (EACPT). Budapest, Hungary. Jun 28, 2011.
95. Boroujerdi MA, **Schmidt S**, Della Pasqua OE, Danhof M. “A negative feedback model for a mechanism-based description of longitudinal data: application for bone turnover markers” presented at the 20th meeting of the population approach group in Europe (PAGE), Athens, June 8, 2011.
96. Singh RP, Viera M, Barbour A, **Schmidt S**, Rout WR, Ben-David K, Burkhardt O, Derendorf H. “Physiological based pharmacokinetic modeling of cefuroxime clinical microdialysis data in morbidly obese females undergoing surgery” presented at the 2010 American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, New Orleans, November 16, 2010.
97. **Schmidt S**, Burkhardt O, Derendorf H. “Einfluss der Plasmaproteinbindung auf die Pharmakokinetik und Pharmakodynamic von Beta-Laktamen” presented at the 22. Jahrestagung der Paul-Ehrlich-Gesellschaft (PEG) für Chemotherapie e.V., Bonn, October 8, 2010. ****Paul-Ehrlich Society for Chemotherapy Thesis Award**
98. **Schmidt S**. Lecture. Microdialysis: a valuable tool for identifying clinically relevant PK/PD relationships. 13th International Conference for in vivo Methods: Monitoring Molecules in Neuroscience. Brussels, Belgium. Sep 16, 2010.
99. Sahre M, **Schmidt S**, Barbour A, Sabarinath S, Naik R, Seubert CN, Grant MB, Derendorf H. Poster. Microdialysis as a tool for assessment of tissue concentrations of antibiotics in humans. Globalization of Pharmaceutics Education Network (GPEN). Leuven. Sep 11, 2010.
100. **Schmidt S**, Post TM, Boroujerdi MA, Peletier LA, Danhof M, Della Pasqua OE. “Implication of differences in model parameterization in osteoporosis” presented at the 19th meeting of the population approach group in Europe (PAGE), June 10, 2010.
101. **Schmidt S**, Post TM, Peletier LA, Danhof M, Della Pasqua OE. “Disease progression analysis in osteoporosis: relating bone mineral density to osteoblast and osteoclast activity” presented at the 6th International Symposium on Measurement & Kinetics of In Vivo Drug Effects, Noordwijkerhout, April 22, 2010.
102. Gonzalez D, **Schmidt S**, Derendorf H. “Effect of protein binding on half-life of elimination” presented at the 38th Annual Meeting of the American College of Clinical Pharmacology (ACCP), San Antonio, September 14, 2009. ****ACCP Student and Trainee Award**
103. **Schmidt S**, Burkhardt O, Derendorf H. “Protein binding pitfalls – *in vitro* and *in vivo*” presented at the 2008 American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Atlanta, November 19, 2008.
104. Barbour A, **Schmidt S**, Derendorf H. “Microdialysis-based pharmacokinetic modeling of beta-lactam tissue concentrations” presented at the 2008 American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Atlanta, November 17, 2008.

105. Li Y, Nguyen M, **Schmidt S**, Zhong L, Derendorf H, Clancy C. "Simulating voriconazole-candida interactions using a mathematical model derived from a dynamic *in vitro* time-kill method" presented at 48th Annual Interscience on Antimicrobial Agents and Chemotherapy (ICAAC) and the Infectious Diseases Society of America (IDSA) 46th Annual Meeting, Washington DC, October 27, 2008.
106. Sahre M, **Schmidt S**, Barbour A, Rand KH, Derendorf H. "*In vitro* pharmacodynamics of TR-700, the active moiety of prodrug TR-701, a novel oxazolidinone, in a kill-curve model" presented at 48th Annual Interscience on Antimicrobial Agents and Chemotherapy (ICAAC) and the Infectious Diseases Society of America (IDSA) 46th Annual Meeting, Washington DC, October 27, 2008.
107. Barbour A, Childs A, Murthy B, **Schmidt S**, Sabarinath S, Tian H, Desai-Krieger D, Balis D, Grant M, Seubert C, Derendorf H. "Soft tissue penetration of ceftobiprole following single dose administration in healthy adults" presented at 48th Annual Interscience on Antimicrobial Agents and Chemotherapy (ICAAC) and the Infectious Diseases Society of America (IDSA) 46th Annual Meeting, Washington DC, October 27, 2008.
108. **Schmidt S**, Roeck K, Sahre M, Derendorf H. "*In vitro* protein binding needs to be measured in the respective medium and not estimated from reported serum binding" presented at 48th Annual Interscience on Antimicrobial Agents and Chemotherapy (ICAAC) and the Infectious Diseases Society of America (IDSA) 46th Annual Meeting, Washington DC, October 27, 2008.
109. Sahre M, **Schmidt S**, Barbour A, Sabarinath S, Naik R, Seubert CN, Grant MB, Derendorf H. "Microdialysis as a tool for assessment of tissue concentrations of antibiotics in humans" presented at Globalization of Pharmaceuticals Education Network (GPEN), Leuven, September 2008
110. Barbour A, **Schmidt S**, Derendorf H. "Combination of clinical microdialysis and *in vitro* pharmacodynamics for dose optimization of beta-lactam antibiotics" presented at the 37th Annual Meeting of the American College of Clinical Pharmacology (ACCP), Philadelphia, September 15, 2008. ****ACCP Student and Trainee Award**
111. **Schmidt S**, Barbour A, Burkhardt O, Rout WR, Ben-David K, Derendorf H. "Soft tissue penetration of cefuroxime determined by clinical microdialysis in six obese patients undergoing abdominal surgery" presented at the 37th Annual Meeting of the American College of Clinical Pharmacology (ACCP), Philadelphia, September 15, 2008.
112. **Schmidt S**, Roeck K, Sahre M, Derendorf H. "Protein binding – a source for many pitfalls" presented at the 21st Annual Research Showcase of the College of Pharmacy at the University of Florida, Gainesville, February 21, 2008. ****Annual Research Showcase Competition Winner of the College of Pharmacy at the University of Florida**
113. **Schmidt S**, Barbour A, Ghobrial O, Abbanat D, Manitisitkul P, Blake J, Sha S, Derendorf H. "Potency of RWJ-416457 against MRSA compared to Linezolid" presented at the 47th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago, September 17 – 20, 2007, 1st Emerging Pathogen Institute (EPI) meeting, Gainesville, December 13, 2007.
114. **Schmidt S**, Abbanat D, Manitisitkul P, Blake J, Sha S, Derendorf H. "Linezolid against MRSA – a new modeling approach" presented at the 36th Annual Meeting of the American College of Clinical Pharmacology (ACCP), San Francisco, September 9 – 11, 2007. ****ACCP Student and Trainee Award, Genentech Podium Award**
115. **Schmidt S**. Paper. PK/PD modeling of Linezolid against MRSA. 17th annual meeting of the European Society of Clinical Microbiology and Infectious Diseases (ECCMID). Munich, Germany. Apr 1, 2007.

116. **Schmidt S**, Derendorf H, “Linezolid vs. MRSA – a new PK/PD model” presented at 20th Annual Research Showcase of the College of Pharmacy at the University of Florida, Gainesville, February 19, 2007. ****Annual Research Showcase Competition Winner of the College of Pharmacy at the University of Florida**
117. **Schmidt S**. Paper. PK/PD challenges of in vitro time-kill curves – a new modeling approach. International Society of Anti-Infective Pharmacology (ISAP). San Francisco, CA. Sep 30, 2006.
118. **Schmidt S**, Burkhardt O, Sahre M, Derendorf H. “Experimental pitfalls in protein binding measurements” presented at the 16th annual meeting of the European Society of Clinical Microbiology and Infectious Diseases (ECCMID), Munich, April 1 – 4, 2006, South East Regional Interdisciplinary Symposium (SERIS), Gainesville, May 19 – 21, 2006, Globalization of Pharmaceutics Education Network (GPEN), Lawrence, October 25 – 27, 2006. **** South East Regional Interdisciplinary Symposium (SERIS) Poster Competition Winner**
119. **Schmidt S**, Burkhardt O, Treyaprasert W, Derendorf H. “PK/PD challenges of *in vitro* time-kill curves – a new modeling approach” presented at the 16th annual meeting of the European Society of Clinical Microbiology and Infectious Diseases (ECCMID), Munich, April 1 – 4, 2006.
120. **Schmidt S**, Burkhardt O, Schubert S, Dalhoff A, Derendorf H. “Carbapenems – differences in their antimicrobial activity due to their protein binding” presented at the 16th annual meeting of the European Society of Clinical Microbiology and Infectious Diseases (ECCMID), Munich, April 1-4, 2006.
121. **Schmidt S**, Treyaprasert W, Derendorf H. “Effect of protein binding on the efficacy of ceftriaxone” presented at the 19th Annual Research Showcase of the College of Pharmacy at the University of Florida, Gainesville, February 23, 2006.

Research Group:

Research Assistant Professors:

Sarah Kim; January 2019 – May 2021
 Rodrigo Cristofolletti; July 2019 – 2020
 Brian Cicali; July 2022- TBD

Postdoctoral Fellows:

Dr. Xi-Ling Jiang (FDA); March 2012 – December 2013
 Dr. Songmao Zheng (Adagene); September 2012 – December 2013
 Dr. Mirjam Trame (AVROBIO); May 2013 – April 2014
 Dr. Puneet Gaitonde (Pfizer); March 2013 – October 2014
 Dr. Amit Somani (FDA); September 2013 – January 2014
 Dr. Tanay Samant (Novartis); January 2014 – October 2015
 Dr. Chakradhar Lagishetty (GSK); February 2014 – February 2016
 Dr. Kumpal Madrasi (EMD Serono); July 2014 – August 2016
 Dr. Felipe Hurtado (Novartis); September 2014 – August 2016
 Dr. Sumit Basu (Merck); August 2015 – February 2017
 Dr. Haitao Yang; (FDA) August 2015 – February 2018
 Dr. Harik Chandasana (co-supervised with Dr. Derendorf, GSK); September 2015 – July 2018
 Dr. Vishnu Sharma (shared post-doc with Dr. Trame); January 2016 – August 2017
 Dr. Carolina de Miranda Silva (Merck); August 2016 – August 2018
 Dr. Justine Badee (Novartis); February 2017 – May 2019
 Dr. Farzaneh Maleki (Pfizer); July 2017 – November 2019
 Dr. Amirhossein Hajihosseini (Biogen); July 2017 - November 2018

Dr. Mohammed Akbar; July 2017 – April 2019
Dr. Sarah Kim (Assistant Professor at UF); July 2017 – December 2018
Dr. Nashid Farhan (Amgen); August 2017 – August 2020
Dr. Valvanera Vozmediano (Assistant Professor at UF); November 2017 – March 2018
Dr. Vijay Kumar Siripuram (shared post-doc with Dr. Vozmediano); August 2019 - TBD
Dr. Tao Long (Takeda); August 2019 – March 2021
Dr. Estevan Zimmermann (Eisai); October 2019 – November 2021
Dr. Francisco Morales (co-supervised with Dr. Kim); September 2019 - TBD
Dr. Meenakshi Srinivasan (GSK); July 2020 – October 2021
Dr. Soyoung Kim (National Institute of Mathematical Science in South Korea); September 2020 – June 2022
Dr. Michelle Pressly (FDA); October 2020 – July 2021
Dr. Leyanis Rodriguez Vera (shared post-doc with Dr. Vozmediano); July 2021 – TBD
Dr. Ahmed Abulfathi; February 2022 – TBD
Dr. Venkata Krishna Kowthavarapu; November 2022 - TBD
Dr. Carol Conchon Costa; December 2022 – TBD
Dr. Tatiana Iakovleva; February 2022 - TBD

Ph.D. Students:

Primary Supervisor:

Jenna A Rhoades (left program for personal reasons); May 2012 – December 2012
Snehal Samant (FDA); August 2012 – August 2016
Jiexin Deng; January (Pfizer); 2013 – December 2016
Naveen Mangal (Biogen); January 2014 – Fall 2017
Sibo Jiang (Pfizer); August 2014 – August 2019
Yi-Ting Lien (Genentech); August 2015 – April 2020
Karthik Lingineni (Novartis); August 2017 – April 2021
Brian Cicali (Research Assistant Professor at UF); January 2018 – May 2022
Mohammed Almoslem; August 2019 – TBD
Huili Chen; August 2020 – TBD
Mai Abdelmageed; August 2021 – TBD
Anthony Gebhart; January 2022 – TBD
Xuefen Yin; January 2022 – TBD
Cameron Humerickhouse; August 2022 – TBD
Clemence Boivin-Champeaux; August 2022 - TBD

Committee Member:

Xuyang Song (committee member)
Luning Zhuang (committee member)
Andressa Braga (committee member)
Yuli Qian (committee member)
Lais S Wright (committee member)
Thuy Thai (committee member)
Nasser Nassiri Koopaei (committee member)
Stephanie Drescher (committee)
Chaejin Kim (committee member)
Saima Subhani (committee member)

Masters Students:

Jules Heuberger
Ines Gebert
Miriam Happ

International Exchange Students:

Catharina Link
Teresa Wermter
Lucia Auchtor
Michaela Breitsamer
Esther Luhmann
Roman Götz
Estevan Zimmermann
Miriam Sturm
Johanna Schäfer
Carolina de Miranda Silva
Markus Meyer
Maximilian Siebert
Ramona Gebhard
Martin Ulbricht
Katharina Wieser
Jennifer Graeff
Yannik Hoffert
Marian Klose
Karolin Romahn
Yessica Imbriago

Visiting Scientists:

Andressa Braga (Federal University of Rio Grande do Sul)
Valvanera Vozmediano Esteban (Dynakin SL)
Yosuke Nakatani (Eisai)
Lena Klopp-Schulze (FU Berlin)