



mprint

2026 ANNUAL MEETING

*From
Potential
to
Practice*



APRIL
13 - 17
INDIANAPOLIS



In Conjunction with
**The Indiana CTSP
Pharmacometrics
Modeling &
Simulation Program**

www.mprint.org

Hine Hall
875 W North St, Indianapolis, IN 46202

All times are listed in U.S. Eastern Time (UTC-4) | 1

Monday, April 13, 2026

- 8:30 AM** **Welcome**
- 8:45 AM** **Tutorial: Hands-on with PhysiCell: Building and Exploring Web-Based Cancer Therapy Simulations**
[Paul Macklin, PhD](#)
Professor
Luddy School of Informatics, Computing, and Engineering
Indiana University
- 12:15 PM** **Lunch** (*Hine Hall Ballroom*)
- 1:15 PM** **Model-Informed Pediatric Trial Design**
[Emma Hughes, PhD](#)
Associate Director
Gilead Sciences
- 1:45 PM** **Development of a Precision Dosing Model for Trihexyphenidyl in Children with Dystonic Cerebral Palsy**
[Rose Gelineau-Morel, MD](#)
Assistant Professor of Pediatrics
Children's Mercy Hospital
- 2:15 PM** **Model-Based Precision Dosing of Targeted Therapeutics in Pediatric Population**
[Yuki Otani, MD, PhD](#)
Advisor, Global PK/PD and Pharmacometrics
Eli Lilly & Company
- 2:45 PM** **Break**
- 3:15 PM** **Distribution and Exposure of GLP-1 Receptor Agonists: Consideration of Fetal and Lactation Exposure via Quantitative Clinical Pharmacology Methods**
[Brian Cicali, PhD, MS](#)
Assistant Professor
University of Florida College of Pharmacy
- 3:45 PM** **Antiseizure Medications in Pregnancy**
[Angela Birnbaum, PhD, FAES, MLS](#)
Professor
Department of Experimental and Clinical Pharmacology
University of Minnesota College of Pharmacy
- 4:15 PM** **PBPK Virtual Population Generation Using Open-Source Methods**
[Ahmed Elmokadem, PhD](#)
Senior Scientist
Metrum Research Group

4:45 PM Giving and Receiving Feedback

Stacey Tannenbaum, PhD, FISO

Consultant and Coach to the MIDD Community
SJT Pharm

5:45 PM Closed Door Session, By Invitation Only (5:45PM – 6:30PM)

Tuesday, April 14, 2026

8:30 AM **Welcome**

8:45 AM **Tutorial: Population PK Modeling in Monolix**

[Amparo de la Peña, PhD](#)

Vice President, Pharmacometric Services, CPP
Simulations Plus

This course is designed for beginners who want to learn the fundamentals of population pharmacokinetic (PK) modeling and simulation with MonolixSuite. It provides a practical introduction to building, evaluating, and using PK models to support data analysis and decision-making.

What you'll learn:

- How to prepare, visualize, and explore PK data
- How to build and compare classical population PK models
- How to evaluate model performance using typical diagnostic tools
- How to perform PK simulations to explore new dosing regimens

The course combines lectures with hands-on exercises using MonolixSuite™. A temporary software license is included.

Simulations Plus offers this training tutorial to academic and government participants free of charge. The fee for industry participants is \$400.

[Register for the Simulations Plus Monolix tutorial here. Please complete the prerequisite modules and ensure software installation prior to the hands-on live tutorial.](#)

Note: Academic and government participants, if you create a new account for Simulations Plus Learn-upon, please allow 1-2 days for approval before registering for the MX104IP.

12:15 PM **Lunch (Hine Hall Ballroom)**

1:15 PM **Safe Detect: Development and Optimization Of 19f-Mrs to Detect Drug Disposition in the Pediatric Brain**

[Stephani Stancil, PhD, APRN](#)

Associate Professor of Pediatrics
Children's Mercy Kansas City

1:45 PM **Rivaroxaban and Lactation: Milk, Math, and Infant Exposure**

[Kathleen Job, PhD](#)

Research Assistant Professor
The University of Utah

2:15 PM **Drug-Drug Interactions while Breastfeeding with Mother/Infant Medications: What's Safe?**

[Sharmistha Das, PhD](#)

Modeling & Simulations Senior Scientist
Vertex Pharmaceuticals

2:45 PM **Break**

3:15 PM **Population PKPD analysis of differences in clinical biomarkers between two dosing regimens of antenatal corticosteroids**

[Wojciech Krzyzanski, PhD](#)

Associate Professor
Department of Pharmaceutical Sciences
University at Buffalo School of Pharmacy

3:45 PM **Human Milk Transfer and Infant Exposure to Maternal Sertraline: Evaluating Novel Sample Collection Methods**

[Elizabeth Thompson, MD](#)

Pediatric Cardiology and Critical Care Medicine
Assistant Professor of Pediatrics
Duke Clinical Research Institute
Duke University

4:15 PM **Lightning Talks**

Efavirenz Enhances Stereoselective Metabolism of Methadone in Healthy Participants

[Michael Gruntfest, PharmD](#)

T32 Postdoctoral Fellow in Medicine
Indiana University School of Medicine

Development of a Platform Physiologically-Based Pharmacokinetic Model for Monoclonal Antibodies in Pediatrics: Mechanistic Insights into Age-Dependent Pharmacokinetics

[Mokshada Kumar, MS](#)

PhD Candidate
University at Buffalo Pharmacy and Pharmaceutical Sciences

Stereoselective Disposition of Bupropion and Its Three Active Metabolites in Healthy Volunteers after Single and Multiple Dosing

[Arina Lazutina, PharmD](#)

T32 Postdoctoral Fellow in Clinical Pharmacology
Indiana University School of Medicine

Population Pharmacokinetics of Haloperidol in Pediatric Patients Using Opportunistic Sampling

[Jacob Lindsey, PharmD](#)

PhD Student
College of Pharmacy
Purdue University

Modelling Metformin: Is CYP3A4 Involved?

[Amber N. Rogers, BS](#)

Pharmacology PhD Candidate
Indiana University School of Medicine

How Does Pregnancy Impact Maternal Cardiac Repolarization?

[Omar Ali Aboshady, MD, MSc](#)

PhD Candidate
Purdue University

Using Omics Data to Bridge Cannabidiol Exposure and PKPD Response

[Debora Gisch, PhD](#)

Assistant Research Professor of Medicine
Indiana University School of Medicine

Stereoselective Labetalol Pharmacokinetics in Pregnancy

[Suhaas Muralidharan, PharmD](#)

PhD Student

Purdue University

PK/PD Study Design for mAb158 in APP-SAA Knock-In Mice Informed by Translational Amyloid QSP Modeling

[Ankit Nagar, PhD](#)

Postdoctoral Fellow

Indiana University School of Medicine

5:30 PM

Closing

Wednesday, April 15, 2026

8:30 AM **Welcome**

8:45 AM **Opening Remarks**

[Sarah E. Wiehe, MD, MPH](#)

Associate Dean for Community and Translational Research
Co-Director, Clinical and Translational Sciences Institute
Professor of Pediatrics, Indiana University

9:00 AM **Toward the 3Rs: Is Reproductive Science Ready to Reduce, Refine, and Replace Animal Models to Advance Translational Maternal & Fetal Medicine?**

Organ-on-a-Chip of the Feto-Maternal Interface to Minimize the Use of Animals

[Arum Han, PhD](#)

Associate Dean for Research, College of Engineering
Associate Agency Director, Texas A&M Engineering Experiment Station (TEES)
Texas Instruments Professor | Presidential Impact Fellow | Chancellor's EDGES Fellow
Director, NanoBio Systems Lab. | Director, AggieFab Nanofabrication Facility
Dept. Electrical and Computer Engineering
Texas A&M University

A high throughput 3d Bioprinted Human Placenta Models of Early and Late Stage of Gestation as a Novel In Vitro Platform to Reduce Animal Use in Reproductive Research

[Cristina Antich Acedo, PhD](#)

Postdoctoral fellow, Tissue Engineer
3D Tissue Bioprinting Laboratory, ETB
National Center for Advancing Translational Sciences (NCATS)
National Institutes of Health (NIH)

Preclinical Trials in Maternal-Fetal Medicine Using Organ-on-a-Chip

[Ramkumar Menon, MS, PhD](#)

Professor, Department of Obstetrics and Gynecology,
Mildred Harvey and Phyllis Hankins Maternal Fetal Medicine Distinguished Chair
Director, Division of Basic Science and Translational Research
Director, Translational Research Center (TraCe) Microphysiologic System (MPS) (NIH/NCATS)
Director, March of Dimes Texas Perinatal Research Ctr of Excellence
The University of Texas Medical Branch at Galveston

10:30 AM **Break**

10:45 AM **Lightning Talks**

Revealing precise drug responses from real-world data

[Pengyue Zhang, PhD](#)

Assistant Professor of Biostatistics & Health Data Science
Indiana University School of Medicine

A Co-Learning Framework for Maternal and Pediatric Pharmacotherapy Knowledge Gap Discovery

[Xiaofu Liu, MS](#)

PhD Candidate

The Ohio State University

LLM-Based PK Model Data Extraction in Large Scale

[Ping Wei, MS](#)

PhD Candidate
The Ohio State University

Underrecognized Vitamin D Deficiency in Pediatric Oncology Patients

[Sun \(Coco\) Yang, B.Pharm, Ph.D, R.Ph, BCPPS, APH](#)

Associate Professor
Department of Pharmacy Practice
Chapman University School of Pharmacy (CUSP)

Population Pharmacokinetics of Methadone in Pregnancy

[Artem Belyakov, PharmD, MS](#)

NIH T32 Clinical Pharmacology Fellow
Thomas Jefferson University

Placental Prostaglandin Transporter: Early Warning System for Complications Following Environmental Chemical Exposures?

[Lauren Alekunes, PharmD, PhD, DABT](#)

Professor, Pharmacology and Toxicology
Lead, Transporter Elucidation Network
Ernest Mario School of Pharmacy
Rutgers University

Thinking Big by going Small: Microsampling for Therapeutic Drug Management

[Abbie D. Leino, PharmD, PhD](#)

Member, Division of Translational Clinical Pharmacology
Assistant Professor, UC Department of Pediatrics

12:15 PM **Lunch** (*Hine Hall Ballroom*)

1:15 PM **Review and Guidance on the Draft ICH E21 Guideline: Inclusion of Pregnant and Breastfeeding Women in Clinical Trials**

Moderators

[Gary Mo](#)

Senior Director
Global PK/PD and Pharmacometrics
Eli Lilly & Co.

[Sara K. Quinney, PharmD, PhD](#)

Professor of Obstetrics & Gynecology
Professor of Medicine
Indiana University School of Medicine

Panelists

[Jocelyn Leu, PharmD, PhD](#)

Senior Director, Clinical Pharmacology & Pharmacometrics
Johnson & Johnson

[Leyla Sahin, MD](#)

Deputy Director for Safety
Division of Pediatrics and Maternal Health
Office of New Drugs in CDER
Food and Drug Administration

[Ann Bruno, MD, MSci](#)

Assistant Professor
Obstetrics and Gynecology
The University of Utah

[Christina Bucci-Rechtweg, MD](#)

Head, Pediatric & Maternal Health Policy
Global Drug Development Regulatory Affairs
Novartis Pharmaceuticals Corporation

[Tamorah Lewis, MD, PhD](#)

Sellers Chair in Pharmacology and Pharmacogenetics
Division Head, Clinical Pharmacology & Toxicology
Staff Neonatologist
The Hospital for Sick Children
Associate Professor, Department of Paediatrics
University of Toronto

[Sharon Nachman, MD](#)

Distinguished Professor
Knapp Endowed Chair Pediatrics
Department of Pediatrics
Associate Dean for Research
Renaissance School of Medicine
SUNY Stony Brook

2:45 PM

Break

3:00 PM

Human-Relevant Organoids and Tissue Chips as New Approach Methodologies for Advancing Perinatal Pharmacotherapeutics

Moderator

[Lauren Alekunes, PharmD, PhD, DABT](#)

Professor, Pharmacology and Toxicology
Lead, Transporter Elucidation Network
Ernest Mario School of Pharmacy
Rutgers University

Insights on Nutrient Transporters from Human Mammary Organoids and Milk Fat Globules

[Misba Majood, PhD](#)

Postdoctoral Fellow
Johns Hopkins University

Modeling the Human Placental Interface: A Microengineered Platform for Mechanistic Insight into Maternal–Fetal Exposure

[Pouria Fattahi, PhD](#)

Assistant Professor, College of Engineering
University of Georgia

An iPSC-Derived, Metabolically Competent Fetal/Neonatal Hepatocyte-like Cell Model to Study Xenobiotic Metabolism and Toxicity

[Jed Lampe, PhD](#)

Associate Professor, Department of Pharmaceutical Sciences
University of Colorado

Modeling Transporter Ontogeny in Human Intestinal Organoids

[Edward Kelly, PhD](#)

Professor, Department of Pharmaceutics
University of Washington

4:30 PM

Career Development Session: Navigating Your Clinical Pharmacology and/or Pharmacometrics Career in the Age of AI: Building Resilience Through Uncertainty

Moderators

[Nieves Velez de Mendizabal, PhD](#)

Executive Director & Head of Pharmacometrics
Eli Lilly & Company

[Sam Miles, MSECE](#)

Lead Automation & AI Engineer for PK/PD
Eli Lilly & Company

Panelists

[Robert Bies, PharmD, PhD](#)

Professor
Department of Pharmaceutical Sciences
University at Buffalo

[Samuel Callisto, PhD](#)

Senior Scientist II
Metrum Research Group

[Gemma Dickinson, PhD](#)

Vice President and Head of Global PK/PD and Pharmacometrics
Eli Lilly & Company

[Tomoyuki Mizuno, PhD, FCP](#)

Associate Professor of Pediatrics
Cincinnati Children's Hospital Medical Center

6:00 PM

Networking Reception and Dinner (*Hine Hall Ballroom*)

Thursday, April 16, 2026

8:30 AM **Registration and Welcome**

8:45 AM **UCSD Center of Excellence in Therapeutics**

Moderator

[Adriana Tremoulet, M.D., M.A.S.](#)

Professor

Division of Host-Microbe Systems and Therapeutics

Department of Pediatrics

University of California San Diego

[Christina Chambers, PhD, MPH](#)

Professor, Department of Pediatrics

Chief, Division of Environmental Science and Health

Co-Director, Center for Better Beginnings

Associate Director, Altman Clinical & Translational Research Institute

University of California San Diego

[Lars Bode, PhD](#)

Endowed Chair of Collaborative Human Milk Research

Founding Director of the UC San Diego Larsson-Rosenquist Foundation Mother-Milk-Infant

Center of Research Excellence (MOMI CORE)

University of California San Diego

[George Liu, MD, PhD](#)

Chief and Professor

Pediatric Infectious Diseases

University of California San Diego

[Shirley Tsunoda, PharmD, FCCP](#)

Professor of Clinical Pharmacy

Associate Dean for Pharmacy Education

University of California San Diego

10:15 AM **Break**

10:45 AM **Neurodevelopment in Children with SSRI Exposure**

Moderator

[Christina Chambers, Ph.D., M.P.H.](#)

Professor, Department of Pediatrics

Chief, Division of Environmental Science and Health

Co-Director, Center for Better Beginnings

Associate Director, Altman Clinical & Translational Research Institute

University of California San Diego

[Tim Oberlander, MD](#)

Developmental Pediatrician

British Columbia Children's Hospital Research Institute

Vancouver BC

[Ardesheer Talati, PhD](#)

Professor of Clinical Neurobiology in the Department of Psychiatry
Columbia University Irving Medical Center
New York, NY

[Catherine Stika, MD](#)

Clinical Professor of Obstetrics and Gynecology
Northwestern Feinberg School of Medicine
Chicago, IL

12:15 PM **Lunch** (*Hine Hall Ballroom*)

1:15 PM **VICE-MPRINT**

Moderator

[Prince Kannankeril, MD, MSCI](#)

Richard B. Johnston Jr., MD, Endowed Chair in Pediatric Research
Vanderbilt University Medical Center

[Digna R. Velez Edwards, PhD, MS](#)

Division Director, Quantitative Services
Director, Women's Health Research
Professor, Obstetrics and Gynecology
Vanderbilt University Medical Center

[Wei-Qi Wei, MD, PhD, FAMIA](#)

Associate Professor, Department of Biomedical Informatics
Vanderbilt University Medical Center

[Andrew Wiese, PhD, MPH](#)

Assistant Professor, Department of Health Policy
Vanderbilt University Medical Center

2:45 PM **Break**

3:00 PM **Examining the Current Understanding of Pain Medication Use During Pregnancy from Clinical and Research Perspectives**

Moderators

[Megan Shuey, PhD](#)

Research Assistant Professor
Clinical Pharmacology and Genetics
Center for Precision Medicine
Vanderbilt University Medical Center

[Sudeep Sunthakar, MD, MSCI](#)

Assistant Professor of Pediatrics, Cardiology
Vanderbilt University Medical Center

Panelists

[Luke A. Gatta, MD](#)

Assistant Professor in Obstetrics & Gynecology
Vanderbilt University Medical Center

Jeff Reese, MD

Professor of Pediatrics, Neonatology
Mildred T. Stahlman Chair in Perinatal Research, Neonatology
Vanderbilt University Medical Center

Enrique Schisterman, PhD

Chair, DBEI
Perelman Professor in Biostatistics, Epidemiology, and Informatics
University of Pennsylvania

5:00 PM

Closing

Friday, April 17, 2026

8:30 AM **Welcome**

8:45 AM **MPRINT Data, Model, Knowledge, Research Coordination Center**

[Sara K. Quinney, PharmD, PhD](#)

Professor of Obstetrics and Gynecology and Medicine (Clinical Pharmacology)
Principal Investigator, MPRINT DMKRCC
Indiana University School of Medicine

[Lang Li, PhD](#)

Professor and Chair
Department of Biomedical Informatics
College of Medicine
The Ohio State University

[Christopher W. Bartlett, PhD, MHA](#)

Assistant Chief Data Sciences Officer for Biomedical Informatics
Nationwide Children's Hospital
Professor of Pediatrics
The Ohio State University

[Robert Bies, PharmD, PhD](#)

Professor
Department of Pharmaceutical Sciences
University at Buffalo

10:15 AM **Break**

10:45 AM **Data Science and Regulatory Science in Pharmacotherapy Research**

Moderator

[Sara K. Quinney, PharmD, PhD](#)

Professor of Obstetrics and Gynecology and Medicine (Clinical Pharmacology)
Principal Investigator, MPRINT DMKRCC
Indiana University School of Medicine

[Liang Zhao, PhD MAS MBA](#)

Professor and Vice Chair
Department of Bioengineering and Therapeutic Sciences
School of Pharmacy and Medicine
University of California San Francisco

[Michelle Whirl-Carrillo, PhD](#)

Stanford University

MPRINT-Knowledge Portal: A Glimpse of AI in Translational Pediatric and Maternal Pharmacology Research

[Lang Li, PhD](#)

Professor and Chair
Department of Biomedical Informatics
College of Medicine
The Ohio State University

Panelists

Todd Skaar, PhD

Professor of Medicine

Indiana University School of Medicine

Serena Jingchuan Guo, MD PhD

William S. Bucke, Associate Professor

Department of Pharmacy Practice

AI Director, College of Pharmacy

Purdue University

Investigator, Regenstrief Institute

12:15 PM **Lunch** (*Hine Hall Ballroom*)

1:15 PM **Closed Door Session, by Invitation Only (1:15PM-3PM)**