



mprint

2026 ANNUAL MEETING

*From
Potential
to
Practice*



APRIL
13 – 17
INDIANAPOLIS



In Conjunction with
**The Indiana CTSI
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** (*Hine Hall Ballroom*)

[Paul Macklin, PhD](#)
Professor
Luddy School of Informatics, Computing, and Engineering
Indiana University
- 12:15 PM** **Lunch** (*Hine Hall Ballroom*)
- 1:15 PM** **Remdesivir and Metabolite PopPK Models for Pediatrics**

[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** (*Hine Hall Ballroom*)
[Amparo de la Peña, PhD](#)
Vice President, Pharmacometric Services, CPP
- 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

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

Model-Informed Study Design for Anti-Amyloid Immunotherapy in APP-SAA Alzheimer's Mice

[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 Aleksunes, 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

Centralised Identification of Early-Gestation Biospecimens to Support Early-Onset Pre-Eclampsia Prediction

[Chris E Philip, MD](#)

Indiana University School of Medicine

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**

Advancing the Inclusion of Pregnant and Breastfeeding Women in Clinical Trials and Overview of ICH E21 Draft Guidance

[Leyla Sahin, MD](#)

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

Evaluation of Nipocalimab for Maternal-Fetal Indications: Hemolytic Disease of the Fetus and Newborn (HDFN) and Fetal and Neonatal Alloimmune Thrombocytopenia (FNAIT)

[Jocelyn Leu, PharmD, PhD](#)

Senior Director, Clinical Pharmacology & Pharmacometrics
Johnson & Johnson

Moderators

Gary Mo, PhD

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

Tamurah 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 Aleksunes, 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

[Prince Kannankeril, MD, MSCI](#)

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

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

Medications and Milk: The UC San Diego Human Milk Research Biorepository

[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

Feeding the Future: Pharmacomicrobiomics and Human Milk in Maternal-Infant Health

[Shirley Tsunoda, PharmD, FCCP](#)

Professor of Clinical Pharmacy
Associate Dean for Pharmacy Education
University of California San Diego

Peripartum Antibiotic Exposure Disrupts Maternal-Infant Microbiota and Metabolome, and impairs Neonatal Vaccine Immunity

[George Liu, MD, PhD](#)

Chief and Professor
Pediatric Infectious Diseases
University of California San Diego

Milk Analytics Core

[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

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

Maternal Mental Health and Child Development: Anxiety in children with prenatal SSRI exposure

Tim Oberlander, MD

Developmental Pediatrician

British Columbia Children's Hospital Research Institute

Vancouver BC

Prenatal exposures to maternal depression and antidepressant medications: A complex puzzle

Ardesheer Talati, PhD

Professor of Clinical Neurobiology in the Department of Psychiatry

Columbia University Irving Medical Center

New York, NY

Perinatal SSRI Exposure-Future Research Needs from an Ob's Perspective

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

Project 1, Assessing the Knowledge & Attitudes Regarding PGx Testing Among Pediatric and Pregnant Populations (Aim 1)

Digna R. Velez Edwards, PhD, MS

Division Director, Quantitative Services

Director, Women's Health Research

Professor, Obstetrics and Gynecology

Vanderbilt University Medical Center

Project 1, Aim 2: Validation of Drug-gene Interactions in Children and Pregnant People

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

Leveraging Data Science to Understand Outcomes for Mothers and Children Affected by Opioids: VICE MPRINT-Project 2

Andrew Wiese, PhD, MPH

Assistant Professor, Department of Health Policy

Vanderbilt University Medical Center

Advancing Precision Phenotyping: From Algorithms to AI in MPRINT

All times are listed in U.S. Eastern Time (UTC-4) | 12

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

Associate Professor, Department of Biomedical Informatics
Vanderbilt University Medical Center

VICE-MPRINT

[Prince Kannankeril, MD, MSCI](#)

Richard B. Johnston Jr., MD, Endowed Chair in Pediatric Research
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

Examining the Current Understanding of Pain Medication Use During Pregnancy: Clinical Perspectives

[Luke A. Gatta, MD](#)

Assistant Professor in Obstetrics & Gynecology
Vanderbilt University Medical Center

NSAIDS during Pregnancy: Curious effects on the Ductus Arteriosus

[Jeff Reese, MD](#)

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

Targeted tocolytic delivery strategies for the mitigation of preterm labor

[Jennifer L. Herington, PhD](#)

Associate Professor
Division of Neonatology, Department of Pediatrics
Department of Pharmacology
Vanderbilt University

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

[Jennifer L. Herington, PhD](#)

Associate Professor

Division of Neonatology, Department of Pediatrics
Department of Pharmacology
Vanderbilt University

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

[Robert Bies, PharmD, PhD](#)

Professor
Department of Pharmaceutical Sciences
University at Buffalo

Maternal and Pediatric Precision in Therapeutics Knowledge Portal (MPRINT-KP)

[Lang Li, PhD](#)

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

Real-World Evidence Core

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

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

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

How AI can transform modeling approaches in drug R&D

[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

The Clinical Pharmacogenomics Resource (PharmGKB & CPIC) PGx, Drug Labels and the FDA

[Michelle Whirl-Carrillo, PhD](#)

Stanford University

Maternal and Pediatric Precision in Therapeutics Knowledge Portal (MPRINT-KP) and Regulatory Evidence Generation

[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)** (*Hine Hall Ballroom*)