



# mprint Newsletter

December 2025



- MPRINT at recent conferences
- MPRINT 2026 Annual Meeting
- Recent Achievements
  - MPRINT Trainee Successes
  - Opportunity Pool Awardees
  - Precision Therapeutics Academy Awardees
- MPRINT Academy
- PRGLAC
- Publications

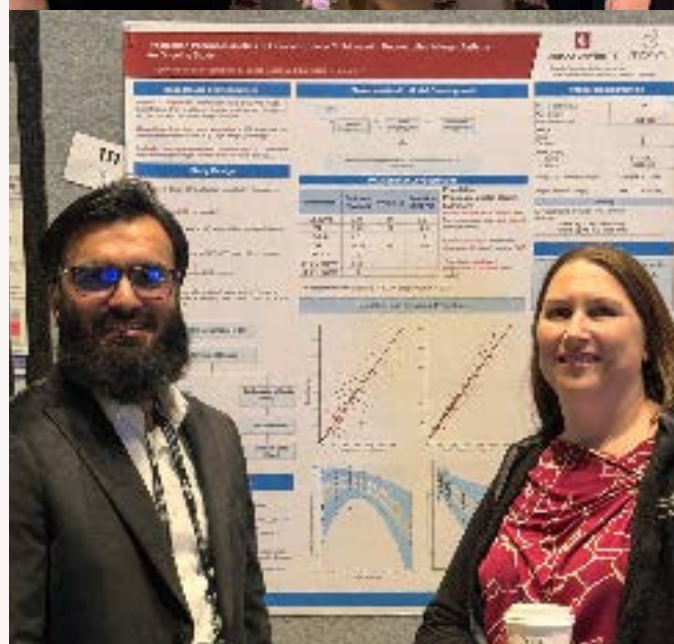
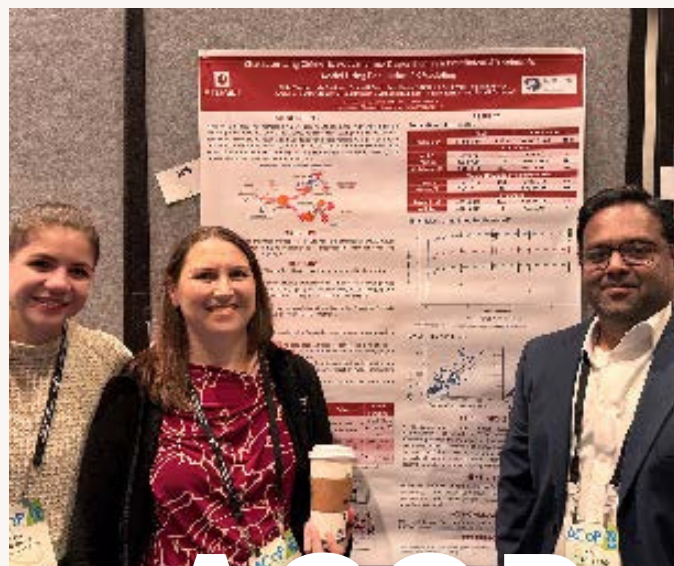
Warm wishes  
for a happy new year







**mprint**  
at Recent Conferences



Christina Chambers gave the keynote talk, which can be viewed here:  
<https://youtu.be/QPYBtizHsNM>

Nitin Charbe, PhD and Syed Saoud Zaidi, PharmD, PhD presented research

# mprint 2026

with Indiana CTSI Modeling  
and Simulation Program 

## From Potential to Practice

**Indianapolis, IN**

**April 13–17, 2026**

MPRINT is hosting our 2026 Annual Meeting in conjunction with the Indiana CTSI Modeling and Simulation Program. This allows us to feature even more speakers and bring together even more expertise than before.



**LEARN MORE**

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# Congratulations!

## Trainee Successes



**Omar Aboshady, MD, MSc**

Omar's research has been selected to receive a Presidential Trainee Award at the ASCPT 2026 Annual Meeting to be held March 4-6, 2026 - "Sex hormone metabolism, genetic polymorphisms, and risk of spontaneous preterm delivery: A retrospective case control study"



**Amber Rogers**

Amber was selected for the Scholar and Mentoring Development Program, sponsored by the International Center for Professional Development (ICPD). This year-long program is designed to connect trainees with an industry mentor to explore and prepare for non-academic careers. Amber's research focuses on maternal physiological changes in pregnancy and their impact on drug exposure and therapeutic response using computational modeling.

## Opportunity Pool Awardees



**Sarah van Dijk**

Sarah's research bridges immunology, placental biology, pharmacology, clinical psychiatry, and multi-omics approaches to examine how peripartum depression (PPD) and selective serotonin reuptake inhibitors (SSRIs) interact with the maternal immune system and placenta.



**Rachel Buckley**

Rachel's research works to develop untargeted metabolomic analytical assays for profiling substrates of membrane protein transporters as part of the NIH funded Integrated Transporter Elucidation Center (InTEC).

# Precision Therapeutics Academy

## Alexandra Sundermann, MD, PhD



Assistant Professor, OBGYN  
Vanderbilt University Medical Center

Dr Sundermann's work focuses on determining the drivers of preeclampsia recurrence. Her PTA project hopes to determine the relationship between clinical features at initial preeclampsia diagnosis and risk of recurrence, and to delineate the role of modifiable and nonmodifiable risk factors in preeclampsia recurrence.

## Hannah Kieffer, MD



Year 3 of 4 of residency in Internal Medicine-Pediatrics  
Vanderbilt University Medical Center

Dr Kieffer is returning for a second year as part of the Precision Therapeutics Academy. Her work focuses on predictive modeling for sepsis in burn patients.

## Michael Wolf, MD



Pediatric critical care physician  
Director of Pediatric Neurocritical Care at Monroe Carell  
Children's Hospital at Vanderbilt

Dr Wolf's work focuses on sedation in pediatric severe traumatic brain injury and its acute physiological and neurobiological effects. His PTA project involves linking sedation to excitotoxicity and inflammation in pediatric traumatic brain injury.

# MPRINT Academy



Instead of our normal monthly webinar series, this year we are releasing a series of videos on Youtube, featuring the wealth of information that exists within the MPRINT community!

Check out the videos we have released so far:

- Maternal and Pediatric Drug Modeling with Lais da Silva
- Supporting Clinical Research with Chris Philip
- Insights on Ontogeny, Drug Clearance, and Modeling with Aislinn Pruss

**Do you want to be a part of MPRINT Academy or know someone who should be? Let us know! Videos can be interview-style or presentations, and can range from a brief spotlight to an hour-long lecture. Send your ideas to [info@mprint.org](mailto:info@mprint.org)**

## PRGLAC Working Group Updates

For the past few months, the team at OSU has done a fantastic job supporting the PRGLAC working groups as they develop their prioritization recommendations for therapeutic research gaps on pregnant and lactating women.

The goal is to wrap up working group feedback with preliminary recommendations by the end of January.



# Recent Publications

Maternal and Pediatric Precision in Therapeutic Knowledge Portal (MPRINT-KP): Landscape Analysis of Pharmacology Research in Maternal and Pediatric Patient Populations

Colin M Rogerson, Christopher W Bartlett, John Price, Lang Li, Eneida A Mendonca, Shaun Grannis, Derivation and validation of an algorithm for maternal–child linkage in electronic health records, *Journal of the American Medical Informatics Association*, 2025

Binkheder S, Liu X, Wu M, Wang L, Shendre A, Quinney SK, Wei WQ, Li L. Biomedical literature-based clinical phenotype definition discovery using large language models. Database (Oxford). 2025 Jan 18;2025:baaf047. doi: 10.1093/database/baaf047. PMID: 40996710; PMCID: PMC12462612.

Mokshada Kumar: Investigation of Monoclonal Antibody Pharmacokinetics in Pediatric Population and Characterization Using a Platform PBPK Model' Under review in AAPS journal